

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P191768

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-AFL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48835 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

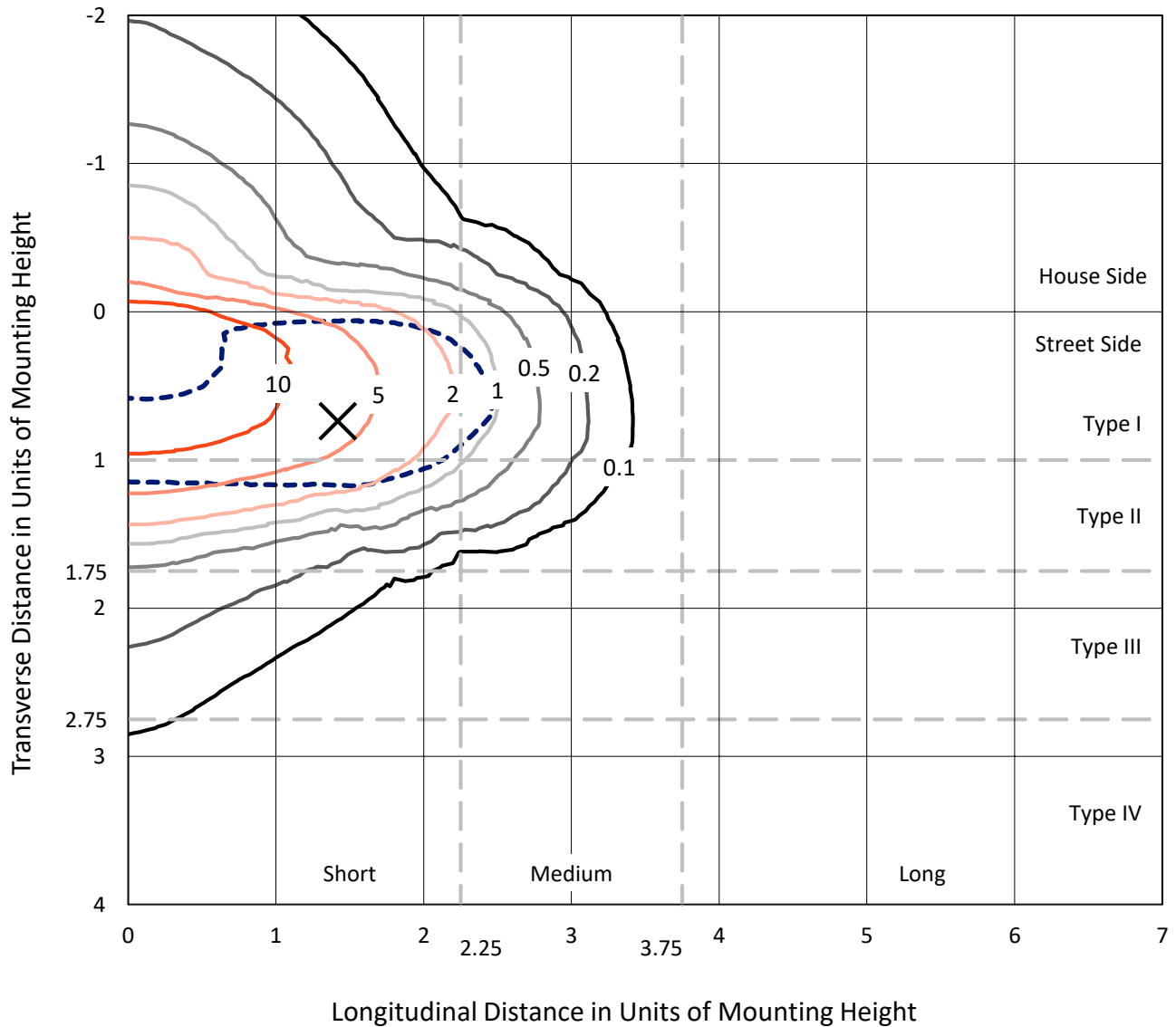


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### Iso-Footcandle Lines of Horizontal Illumination

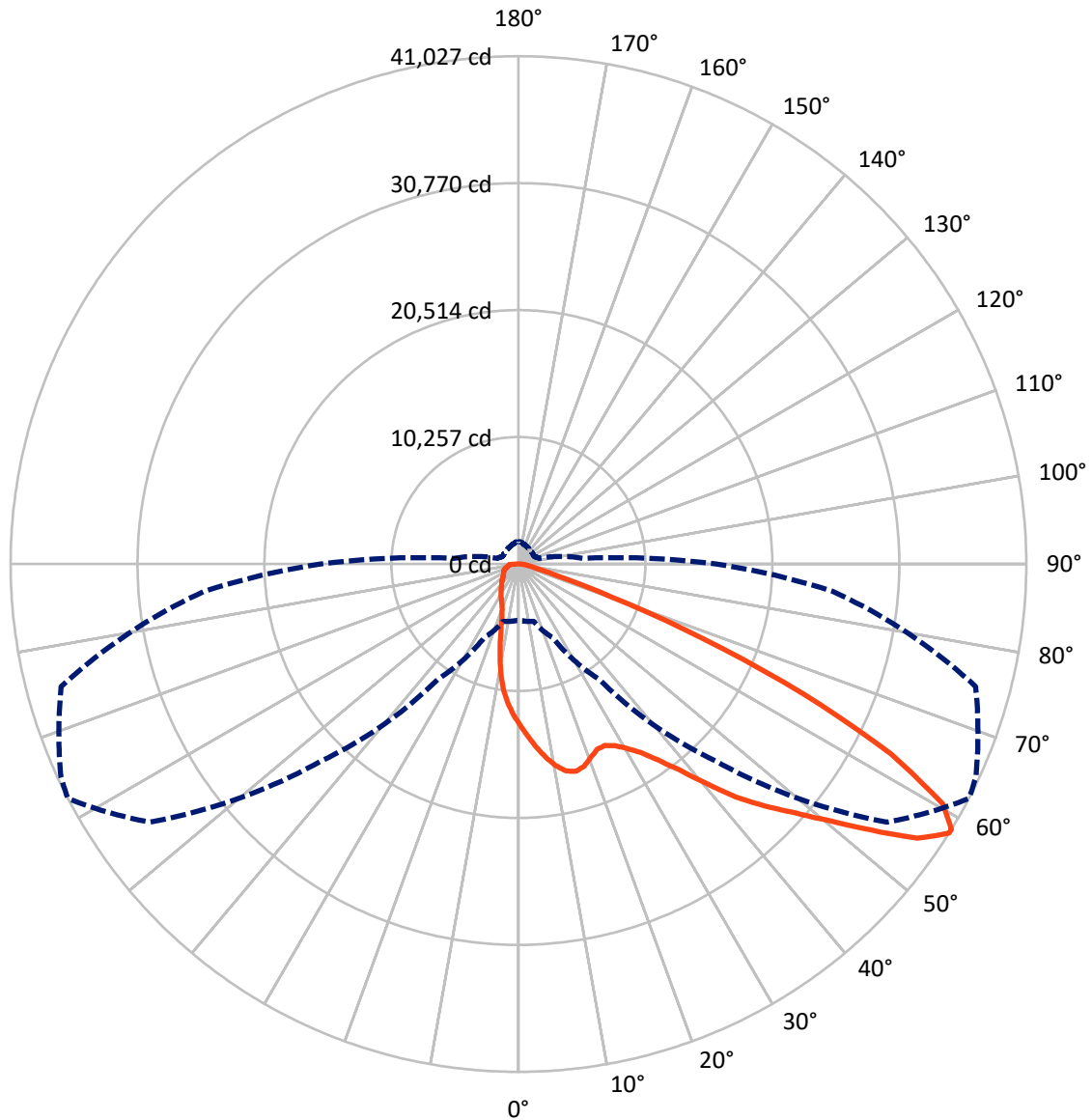
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7447.5	0.0	7447.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	41387.5	0.0	41387.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	48835.0	0.0	48835.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1160.2	2.4
10°-20°	2965.5	6.1
20°-30°	4793.9	9.8
30°-40°	7610.3	15.6
40°-50°	11135.4	22.8
50°-60°	11646.7	23.8
60°-70°	6880.9	14.1
70°-80°	1938.4	4.0
80°-90°	703.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48835.0	100.0
0°-180°	48835.0	100.0



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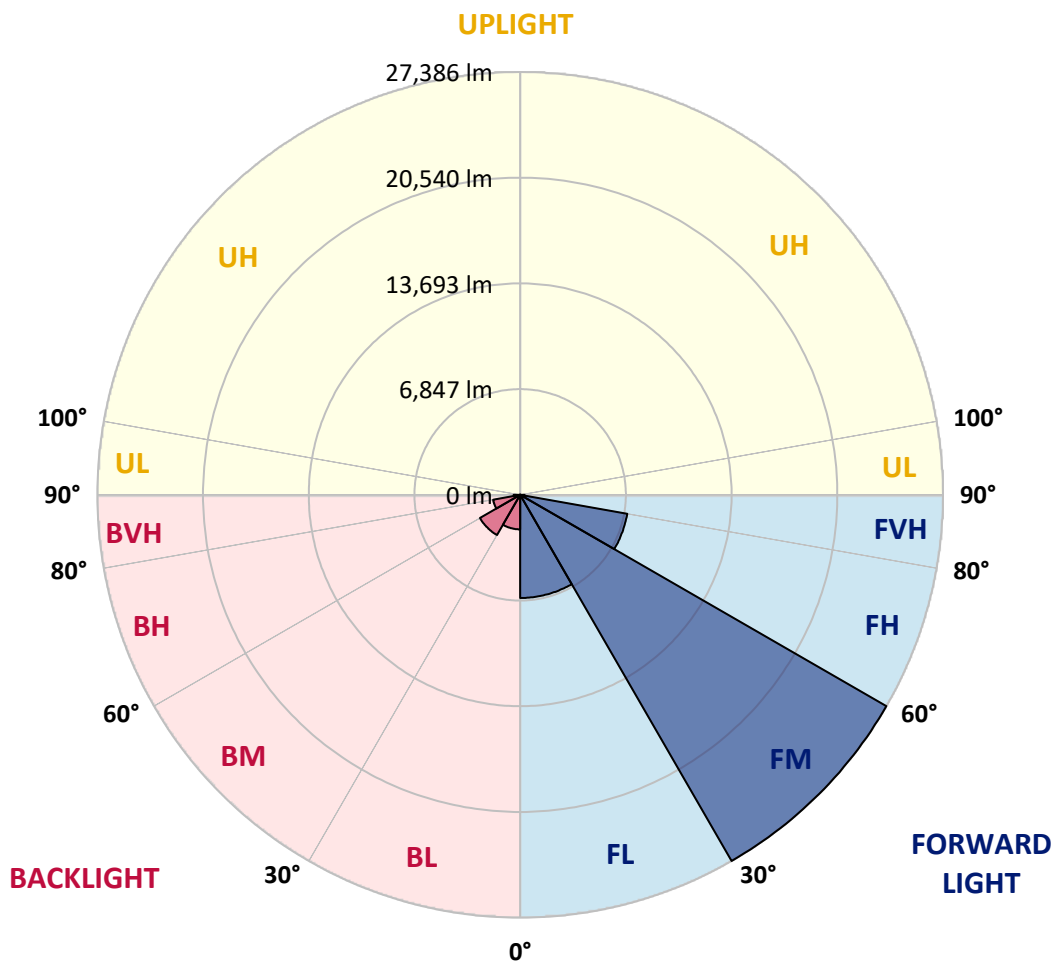
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6681.2	13.7			
FM (30°-60°)	27386.4	56.1			
FH (60°-80°)	7042.2	14.4			G3/7500
FVH (80°-90°)	277.6	0.6			G3/500
BL (0°-30°)	2238.4	4.6	B3/2500		
BM (30°-60°)	3006.0	6.2	B3/5000		
BH (60°-80°)	1777.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	426.1	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0
2.5°	14823.2	14703.6	14627.7	14561.0	14473.7	14287.4	14036.7	13878.1	13797.6	13523.9	13199.7
5°	16276.5	16170.8	16092.6	16002.9	15846.5	15554.5	15149.7	14827.8	14669.1	14121.8	13473.3
7.5°	15936.2	15979.9	16115.6	16352.4	16554.8	16515.7	16154.7	15745.3	15536.1	14774.9	13790.7
10°	13885.0	13960.8	14195.4	14749.6	15646.5	16566.3	16846.8	16564.0	16352.4	15421.1	14117.2
12.5°	13473.3	13471.0	13489.4	13636.6	14170.1	15464.8	16869.8	17155.0	17028.5	16037.4	14450.7
15°	13641.2	13645.8	13632.0	13694.1	13859.7	14372.5	16166.2	17382.6	17472.3	16658.3	14795.6
17.5°	14082.7	14071.2	14018.3	14018.3	14078.1	14278.2	15338.3	17171.1	17585.0	17207.9	15099.1
20°	14823.2	14770.3	14630.0	14501.3	14436.9	14544.9	14998.0	16683.6	17389.5	17688.5	15349.8
22.5°	15720.0	15678.6	15451.0	15175.0	14952.0	14949.7	15172.7	16258.1	17051.5	18141.5	15561.4
25°	16879.0	16812.3	16474.3	16032.8	15641.9	15492.4	15554.5	16237.5	16867.5	18633.6	15749.9
27.5°	18240.4	18118.5	17718.4	17081.4	16506.5	16205.3	16115.6	16612.3	17035.4	19243.0	16012.1
30°	19891.5	19751.2	19238.4	18408.3	17596.5	17102.1	16911.2	17276.9	17591.9	19985.8	16432.9
32.5°	21770.3	21567.9	20974.6	20059.4	18992.4	18238.1	17927.7	18155.3	18406.0	20880.3	16959.5
35°	24366.5	24125.1	23267.3	22004.8	20799.8	19762.7	19266.0	19431.6	19675.3	22214.1	17720.7
37.5°	26137.2	26029.1	25458.8	24272.2	22961.5	21768.0	20999.9	21096.5	21234.5	23881.3	18695.7
40°	26121.1	26164.8	26176.3	26187.8	25295.6	24152.7	23327.1	23225.9	23198.3	25711.8	19804.1
42.5°	24812.6	24992.0	25571.5	26746.6	27289.3	26765.0	26008.4	25716.4	25571.5	27868.8	20979.2
45°	22809.7	22906.3	23991.7	26286.7	28310.3	29352.0	28779.4	27859.6	27597.5	29851.1	21954.2
47.5°	21777.2	21883.0	22565.9	25067.9	28298.8	31442.4	31773.5	30021.2	29552.1	31575.8	22795.9
50°	19318.9	19539.7	20399.7	22947.7	27266.3	32403.6	34903.3	32596.8	31626.3	33254.5	23639.9
52.5°	14804.8	15145.1	16108.7	19461.5	24647.1	31927.6	37407.5	35719.6	34349.1	34993.0	24364.2
55°	9338.7	9591.6	10401.1	13744.7	19716.7	29450.9	38357.3	39097.7	37879.0	36639.5	24992.0
57.5°	5077.5	5190.2	5493.7	7588.7	12824.8	23975.6	36972.9	41020.2	40514.3	38037.6	25465.7
58°	4544.0	4619.9	4808.5	6576.8	11373.8	22478.6	36358.9	41027.1	40774.1	38242.3	25502.5
60°	3371.2	3332.1	3164.2	3752.9	6330.8	15529.2	32647.4	39385.2	40128.0	38492.9	25323.2
62.5°	2961.9	2867.6	2525.0	2485.9	3079.2	7154.0	24980.5	33737.4	35492.0	37062.6	24233.1
65°	2782.5	2681.3	2239.8	2097.2	2221.4	3026.3	14715.1	25302.5	27503.2	32725.6	21446.0
67.5°	2649.1	2518.1	2058.1	1862.7	1871.9	2000.6	5898.5	15936.2	18412.9	24847.1	16681.3
70°	2520.4	2377.8	1904.1	1678.7	1625.8	1582.1	2345.6	7977.3	10224.0	15694.7	10635.6
72.5°	2382.4	2242.1	1768.4	1533.8	1430.3	1285.5	1531.5	3263.1	4557.8	7425.4	4824.6
75°	2182.3	2055.8	1632.7	1405.1	1257.9	1064.7	1156.7	1704.0	2044.3	2957.3	2324.9
77.5°	1936.3	1832.8	1480.9	1299.3	1115.3	864.6	889.9	1182.0	1310.8	1692.5	1382.1
80°	1391.3	1428.0	1317.7	1168.2	993.4	701.4	683.0	862.3	931.3	1087.7	899.1
82.5°	977.3	998.0	1090.0	954.3	821.0	551.9	503.6	607.1	648.5	715.2	485.2
85°	673.8	650.8	747.4	664.6	593.3	367.9	344.9	411.6	436.9	443.8	250.7
87.5°	404.7	404.7	432.3	356.4	319.6	190.9	186.3	234.6	250.7	239.2	138.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0	12972.0
2.5°	13006.5	12843.2	12496.0	12217.8	11865.9	11500.3	11295.6	11077.2	10927.7	10819.6	10992.1
5°	13105.4	12772.0	12054.5	11373.8	10621.8	9840.0	9246.7	8694.8	8310.7	8071.6	8296.9
7.5°	13261.8	12749.0	11606.1	10442.5	9092.6	7791.0	6627.4	5898.5	5473.0	5263.8	5394.9
10°	13441.1	12712.2	11079.5	9180.0	7248.3	5608.7	4739.5	4445.1	4348.5	4309.4	4327.8
12.5°	13590.6	12634.0	10433.3	7653.1	5443.1	4429.0	4178.4	4171.5	4192.2	4196.8	4203.7
15°	13696.4	12519.0	9474.3	6061.7	4353.1	4035.8	4022.0	4063.4	4102.5	4118.6	4127.8
17.5°	13767.7	12282.1	8391.2	4792.4	3900.1	3844.9	3877.1	3930.0	3971.4	3982.9	3992.1
20°	13760.8	11934.9	7101.2	3996.7	3654.1	3654.1	3709.2	3750.6	3752.9	3739.1	3746.0
22.5°	13689.5	11458.9	5850.2	3573.6	3435.6	3474.7	3529.9	3490.8	3329.8	3224.0	3230.9
25°	13569.9	10890.9	4778.6	3304.5	3233.2	3302.2	3286.1	2991.8	2761.8	2658.3	2658.3
27.5°	13464.1	10219.4	3955.3	3070.0	3030.9	3116.0	2830.8	2564.0	2467.5	2419.2	2403.1
30°	13388.3	9495.0	3405.7	2844.6	2840.0	2777.9	2456.0	2382.4	2366.3	2327.2	2313.4
32.5°	13406.6	8761.5	3053.9	2646.8	2662.9	2377.8	2276.6	2292.7	2278.9	2237.5	2219.1
35°	13558.4	8064.7	2823.9	2467.5	2419.2	2147.8	2170.8	2200.7	2196.1	2138.6	2120.2
37.5°	13829.8	7404.7	2672.1	2318.0	2111.0	2032.8	2069.6	2115.6	2104.1	2065.0	2051.2
40°	14114.9	6783.8	2548.0	2200.7	1929.4	1954.7	1986.9	2012.1	2023.6	2035.1	2025.9
42.5°	14393.2	6135.3	2396.2	2081.1	1853.5	1881.1	1894.9	1920.2	1982.3	2025.9	2023.6
45°	14558.7	5525.9	2239.8	1911.0	1793.7	1809.8	1800.6	1851.2	1927.1	1998.3	2000.6
47.5°	14742.7	5052.2	2115.6	1754.6	1736.2	1747.7	1720.1	1770.7	1839.7	1927.1	1936.3
50°	14965.8	4769.4	2016.7	1630.4	1658.0	1658.0	1651.1	1697.1	1793.7	1894.9	1913.3
52.5°	15218.7	4714.2	1934.0	1540.7	1579.8	1577.5	1584.4	1653.4	1759.2	1858.1	1874.2
55°	15526.9	4863.6	1844.3	1474.0	1503.9	1513.1	1536.1	1614.3	1704.0	1816.7	1823.6
57.5°	15885.6	5167.2	1773.0	1421.2	1434.9	1464.8	1501.6	1572.9	1669.5	1793.7	1800.6
58°	15945.4	5231.6	1761.5	1416.6	1421.2	1455.6	1497.0	1566.0	1662.6	1798.3	1805.2
60°	15947.7	5445.4	1736.2	1395.9	1368.3	1425.7	1471.7	1540.7	1651.1	1814.4	1830.5
62.5°	15382.0	5443.1	1717.8	1366.0	1313.1	1384.4	1437.2	1517.7	1639.6	1853.5	1885.7
65°	13544.6	4946.4	1630.4	1320.0	1269.4	1347.6	1407.4	1501.6	1671.8	2023.6	2044.3
67.5°	10594.2	4054.2	1467.1	1255.6	1211.9	1310.8	1389.0	1499.3	1706.3	2062.7	2076.5
70°	7004.6	3033.2	1287.8	1182.0	1152.1	1267.1	1398.2	1577.5	1667.2	1980.0	1943.2
72.5°	3635.7	2129.4	1142.9	1090.0	1083.1	1228.0	1531.5	1568.3	1628.1	1862.7	1816.7
75°	1908.7	1478.6	1016.4	988.8	1000.3	1218.8	1807.5	1526.9	1577.5	1782.2	1869.6
77.5°	1168.2	1193.5	908.3	896.8	919.8	1191.2	1805.2	1474.0	1503.9	1639.6	1736.2
80°	781.9	968.1	825.6	827.9	844.0	1090.0	1621.2	1391.3	1414.3	1549.9	1648.8
82.5°	494.4	572.6	749.7	788.8	768.1	899.1	1377.5	1267.1	1299.3	1773.0	1874.2
85°	250.7	358.7	650.8	758.9	692.2	630.1	1117.6	1110.7	1126.8	1278.6	1336.1
87.5°	115.0	197.8	508.2	662.3	522.0	393.2	811.8	823.3	887.6	908.3	908.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)