

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: P269613

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269613  
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-09-LED-E1-AFL-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47431.1 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

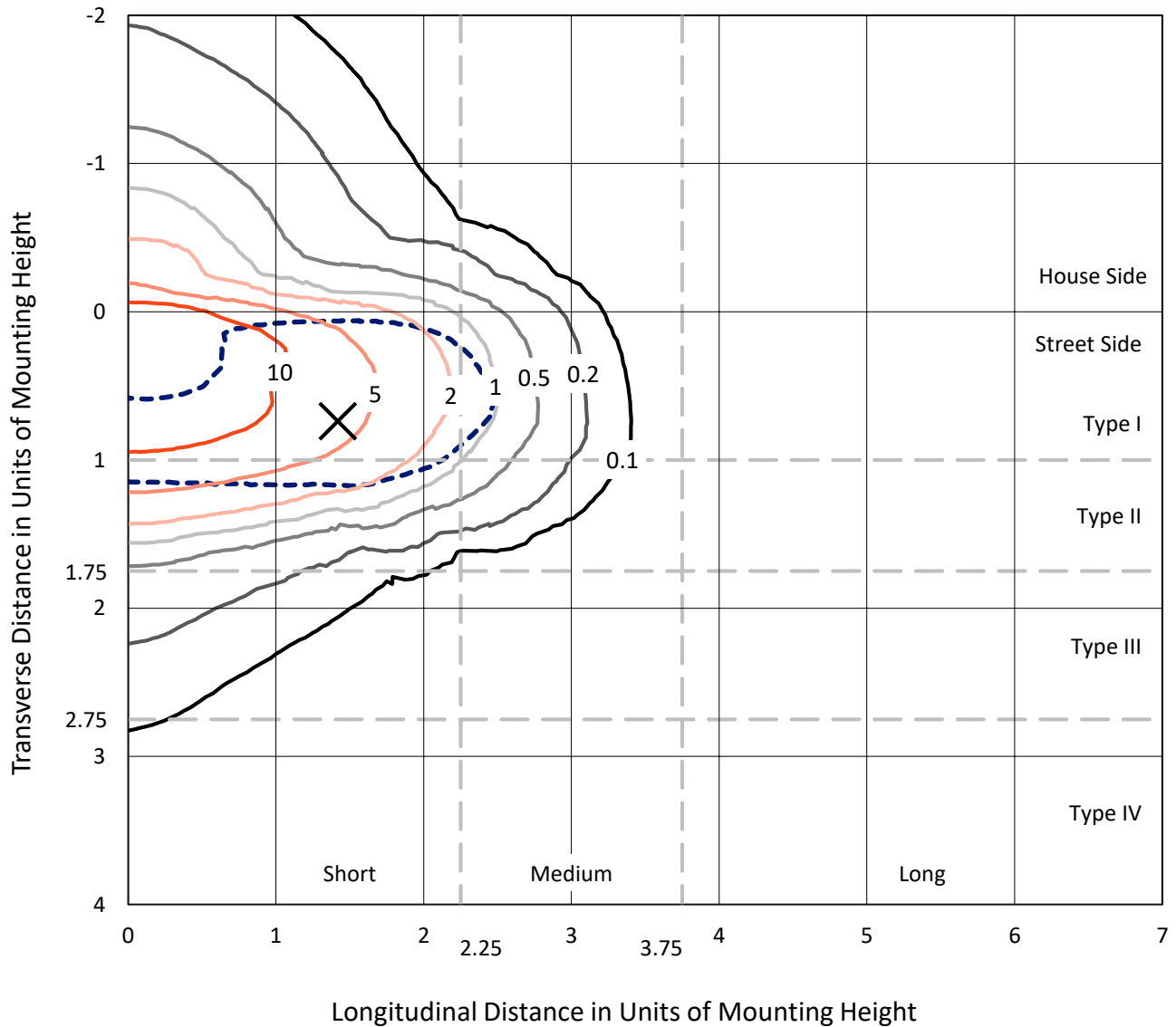
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

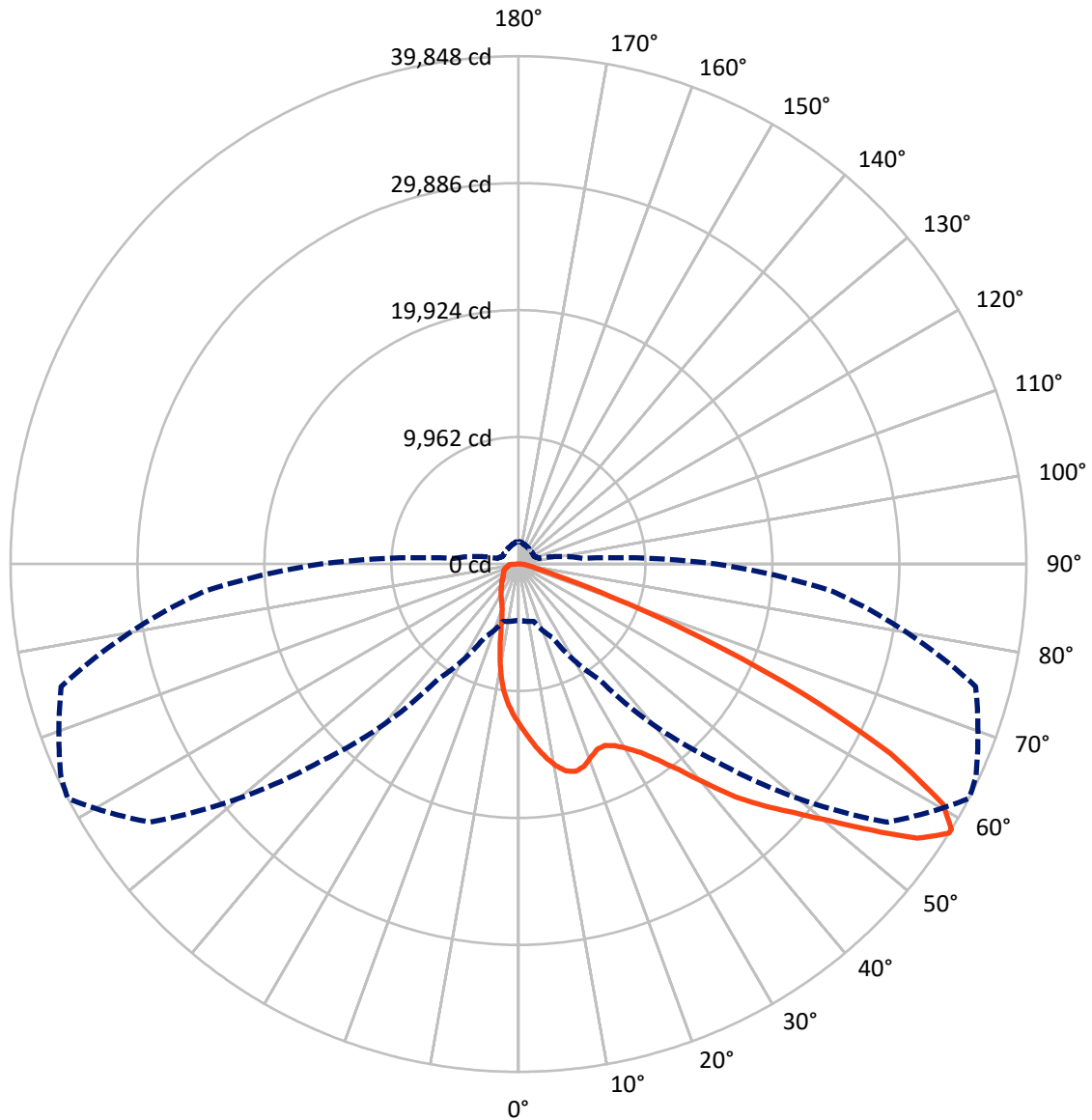
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.1 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	7233.4	0.0	7233.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	40197.7	0.0	40197.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	47431.1	0.0	47431.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1126.8	2.4
10°-20°	2880.3	6.1
20°-30°	4656.1	9.8
30°-40°	7391.5	15.6
40°-50°	10815.3	22.8
50°-60°	11311.9	23.8
60°-70°	6683.1	14.1
70°-80°	1882.7	4.0
80°-90°	683.5	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°	47431.1	100.0
0°-180°	47431.1	100.0



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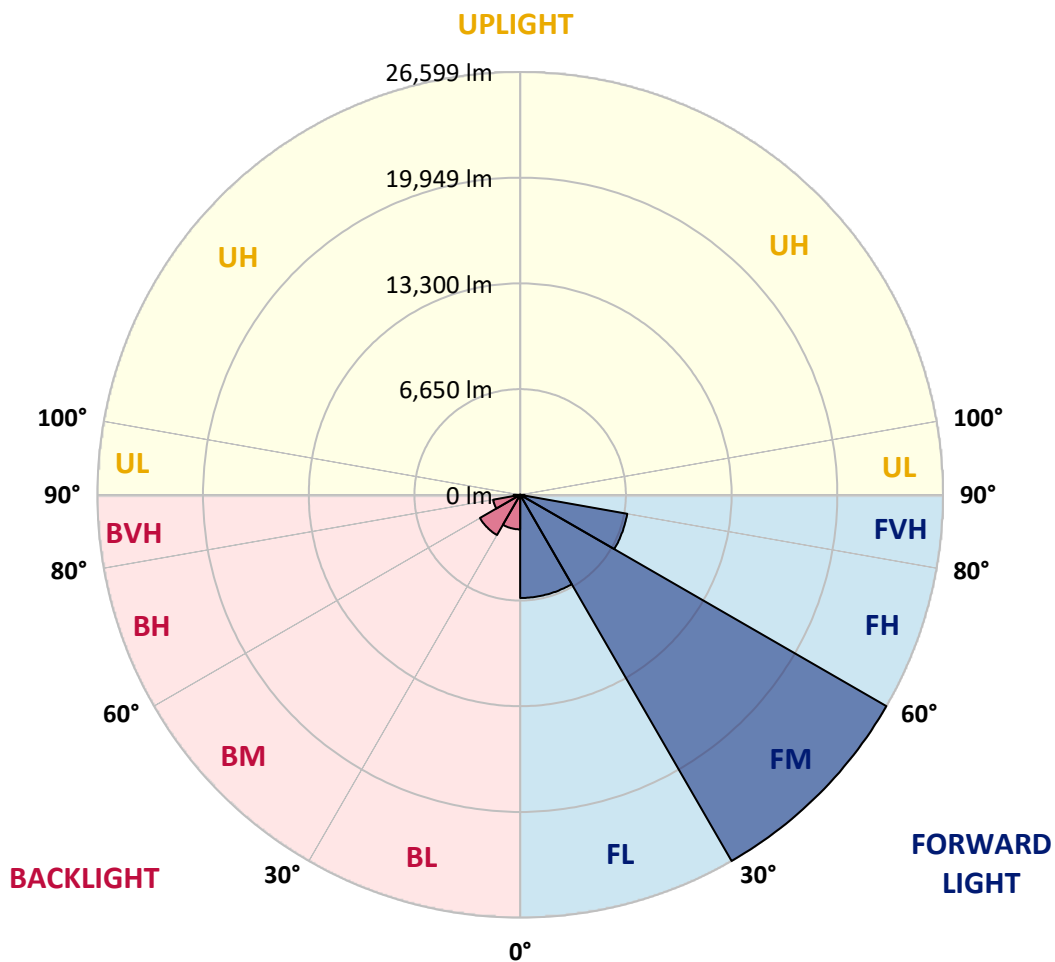
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6489.2	13.7			
FM	(30°-60°)	26599.1	56.1			
FH	(60°-80°)	6839.8	14.4			G3/7500
FVH	(80°-90°)	269.6	0.6			G3/500
BL	(0°-30°)	2174.0	4.6	B3/2500		
BM	(30°-60°)	2919.6	6.2	B3/5000		
BH	(60°-80°)	1726.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	413.9	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°	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1
2.5°	14397.0	14281.0	14207.2	14142.5	14057.5	13876.7	13633.1	13479.1	13400.9	13135.1	12820.3
5°	15808.6	15705.8	15629.9	15542.8	15391.0	15107.2	14714.1	14401.4	14247.4	13715.9	13086.0
7.5°	15478.1	15520.5	15652.2	15882.4	16078.9	16040.9	15690.2	15292.7	15089.4	14350.2	13394.2
10°	13485.7	13559.5	13787.4	14325.6	15196.6	16090.0	16362.5	16087.7	15882.4	14977.8	13711.4
12.5°	13086.0	13083.8	13101.6	13244.6	13762.8	15020.2	16384.8	16661.9	16539.0	15576.3	14035.2
15°	13249.0	13253.6	13240.1	13300.5	13461.2	13959.3	15701.5	16882.9	16970.1	16179.4	14370.2
17.5°	13677.9	13666.8	13615.3	13615.3	13673.5	13867.8	14897.3	16677.5	17079.5	16713.1	14665.1
20°	14397.0	14345.8	14209.4	14084.3	14021.9	14126.7	14566.7	16203.9	16889.7	17179.9	14908.5
22.5°	15268.1	15227.9	15006.7	14738.9	14522.1	14519.9	14736.5	15790.8	16561.3	17620.0	15114.1
25°	16393.8	16329.0	16000.7	15571.8	15192.1	15047.0	15107.2	15770.6	16382.6	18098.0	15297.1
27.5°	17716.1	17597.6	17209.0	16590.3	16032.1	15739.5	15652.2	16134.6	16545.7	18689.9	15551.7
30°	19319.7	19183.5	18685.4	17879.1	17090.7	16610.4	16425.1	16780.2	17086.2	19411.3	15960.5
32.5°	21144.5	20947.8	20371.7	19482.7	18446.3	17713.8	17412.2	17633.4	17876.8	20280.0	16472.0
35°	23666.0	23431.5	22598.4	21372.3	20202.0	19194.5	18712.1	18873.0	19109.7	21575.5	17211.3
37.5°	25385.8	25280.8	24726.9	23574.5	22301.3	21142.1	20396.1	20490.0	20623.9	23194.7	18158.2
40°	25370.2	25412.6	25423.8	25435.0	24568.4	23458.2	22656.5	22558.1	22531.4	24972.6	19234.8
42.5°	24099.3	24273.6	24836.3	25977.6	26504.9	25995.5	25260.8	24977.1	24836.3	27067.5	20376.2
45°	22154.0	22247.8	23301.9	25531.0	27496.5	28508.3	27952.1	27058.7	26804.0	28992.8	21323.1
47.5°	21151.1	21253.9	21917.1	24347.2	27485.4	30538.5	30860.2	29158.2	28702.6	30668.0	22140.5
50°	18763.5	18978.0	19813.2	22287.9	26482.5	31472.1	33899.9	31659.7	30717.2	32298.5	22960.3
52.5°	14379.2	14709.7	15645.6	18902.0	23938.6	31009.8	36332.0	34692.7	33361.7	33987.0	23663.8
55°	9070.1	9315.9	10102.1	13349.5	19149.9	28604.3	37254.6	37973.7	36789.9	35586.1	24273.6
57.5°	4931.5	5041.0	5335.8	7370.6	12456.2	23286.4	35909.9	39841.0	39349.5	36944.1	24733.7
58°	4413.4	4487.0	4670.2	6387.8	11046.8	21832.3	35313.7	39847.6	39602.0	37142.8	24769.3
60°	3274.3	3236.4	3073.3	3645.1	6148.8	15082.7	31708.8	38253.0	38974.4	37386.3	24595.1
62.5°	2876.7	2785.1	2452.4	2414.5	2990.6	6948.4	24262.3	32767.5	34471.6	35997.2	23536.5
65°	2702.6	2604.2	2175.4	2036.9	2157.5	2939.3	14292.0	24575.0	26712.4	31784.8	20829.4
67.5°	2572.9	2445.6	1999.0	1809.1	1818.1	1943.2	5728.9	15478.1	17883.5	24132.8	16201.7
70°	2447.9	2309.5	1849.3	1630.5	1579.1	1536.6	2278.1	7748.1	9930.0	15243.6	10329.9
72.5°	2313.9	2177.6	1717.6	1489.7	1389.1	1248.6	1487.6	3169.3	4426.8	7212.0	4685.9
75°	2119.6	1996.8	1585.8	1364.6	1221.8	1034.0	1123.4	1654.9	1985.6	2872.3	2258.1
77.5°	1880.6	1780.1	1438.4	1261.8	1083.3	839.7	864.3	1148.0	1273.1	1643.9	1342.3
80°	1351.3	1387.1	1279.7	1134.6	964.9	681.3	663.4	837.6	904.6	1056.4	873.3
82.5°	949.1	969.4	1058.7	927.0	797.3	536.1	489.1	589.6	629.8	694.6	471.3
85°	654.4	632.0	725.9	645.5	576.3	357.3	335.0	399.7	424.4	431.0	243.4
87.5°	393.1	393.1	419.9	346.1	310.5	185.4	180.9	227.8	243.4	232.3	133.9
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°	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1	12599.1
2.5°	12632.7	12474.0	12136.8	11866.5	11524.7	11169.6	10970.9	10758.7	10613.6	10508.6	10676.0
5°	12728.7	12404.8	11707.9	11046.8	10316.5	9557.1	8980.9	8444.7	8071.8	7839.6	8058.4
7.5°	12880.4	12382.4	11272.4	10142.3	8831.1	7567.1	6437.0	5728.9	5315.7	5112.4	5239.8
10°	13054.7	12346.8	10760.9	8916.0	7039.9	5447.5	4603.3	4317.3	4223.6	4185.6	4203.3
12.5°	13200.0	12270.8	10133.3	7433.0	5286.6	4301.8	4058.3	4051.5	4071.7	4076.1	4082.7
15°	13302.6	12159.1	9202.0	5887.5	4228.1	3919.8	3906.4	3946.6	3984.5	4000.2	4009.1
17.5°	13371.9	11929.0	8150.1	4654.6	3788.1	3734.4	3765.6	3817.0	3857.2	3868.5	3877.4
20°	13365.3	11591.8	6896.9	3881.8	3549.1	3549.1	3602.7	3642.7	3645.1	3631.7	3638.3
22.5°	13296.0	11129.6	5682.0	3470.8	3336.8	3374.8	3428.4	3390.5	3234.1	3131.3	3138.0
25°	13179.8	10577.8	4641.3	3209.6	3140.2	3207.3	3191.7	2905.7	2682.3	2581.9	2581.9
27.5°	13077.0	9925.6	3841.6	2981.7	2943.7	3026.4	2749.4	2490.3	2396.5	2349.6	2333.9
30°	13003.3	9222.1	3307.7	2762.8	2758.3	2698.1	2385.4	2313.9	2298.3	2260.2	2246.9
32.5°	13021.2	8509.6	2966.1	2570.7	2586.4	2309.5	2211.2	2226.8	2213.3	2173.2	2155.4
35°	13168.7	7832.9	2742.7	2396.5	2349.6	2086.0	2108.4	2137.4	2132.9	2077.2	2059.3
37.5°	13432.1	7191.8	2595.4	2251.3	2050.3	1974.5	2010.1	2054.9	2043.6	2005.6	1992.4
40°	13709.2	6588.8	2474.7	2137.4	1874.0	1898.5	1929.6	1954.4	1965.5	1976.6	1967.6
42.5°	13979.5	5958.9	2327.2	2021.2	1800.3	1827.1	1840.4	1864.9	1925.2	1967.6	1965.5
45°	14140.2	5367.1	2175.4	1856.0	1742.2	1757.8	1748.8	1798.0	1871.7	1940.9	1943.2
47.5°	14319.0	4907.0	2054.9	1704.2	1686.3	1697.4	1670.7	1719.7	1786.8	1871.7	1880.6
50°	14535.6	4632.3	1958.8	1583.5	1610.3	1610.3	1603.7	1648.3	1742.2	1840.4	1858.2
52.5°	14781.3	4578.7	1878.4	1496.4	1534.5	1532.1	1538.8	1605.9	1708.7	1804.7	1820.2
55°	15080.4	4723.8	1791.3	1431.7	1460.7	1469.6	1491.9	1567.9	1654.9	1764.5	1771.2
57.5°	15428.8	5018.7	1722.1	1380.2	1393.7	1422.7	1458.5	1527.7	1621.5	1742.2	1748.8
58°	15487.0	5081.3	1710.8	1375.8	1380.2	1413.8	1453.9	1521.0	1614.9	1746.6	1753.3
60°	15489.3	5289.0	1686.3	1355.7	1329.0	1384.7	1429.5	1496.4	1603.7	1762.2	1777.8
62.5°	14939.8	5286.6	1668.4	1326.6	1275.4	1344.6	1396.0	1474.1	1592.4	1800.3	1831.5
65°	13155.1	4804.2	1583.5	1282.1	1232.8	1308.8	1367.0	1458.5	1623.7	1965.5	1985.6
67.5°	10289.6	3937.6	1425.0	1219.4	1177.0	1273.1	1349.1	1456.2	1657.3	2003.4	2016.9
70°	6803.3	2946.0	1250.8	1148.0	1119.0	1230.7	1358.0	1532.1	1619.3	1923.0	1887.2
72.5°	3531.1	2068.2	1110.0	1058.7	1051.9	1192.7	1487.6	1523.3	1581.2	1809.1	1764.5
75°	1853.8	1436.1	987.1	960.4	971.5	1183.7	1755.5	1483.0	1532.1	1730.9	1815.8
77.5°	1134.6	1159.3	882.2	871.0	893.5	1156.9	1753.3	1431.7	1460.7	1592.4	1686.3
80°	759.3	940.3	801.8	804.1	819.8	1058.7	1574.5	1351.3	1373.6	1505.4	1601.4
82.5°	480.2	556.1	728.2	766.1	746.0	873.3	1337.8	1230.7	1261.8	1722.1	1820.2
85°	243.4	348.5	632.0	737.1	672.3	611.9	1085.5	1078.8	1094.5	1241.7	1297.6
87.5°	111.7	192.1	493.6	643.2	507.1	381.9	788.4	799.6	862.2	882.2	882.2
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)