

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: P191776

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191776  
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-08-LED-E1-AFL-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48942 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

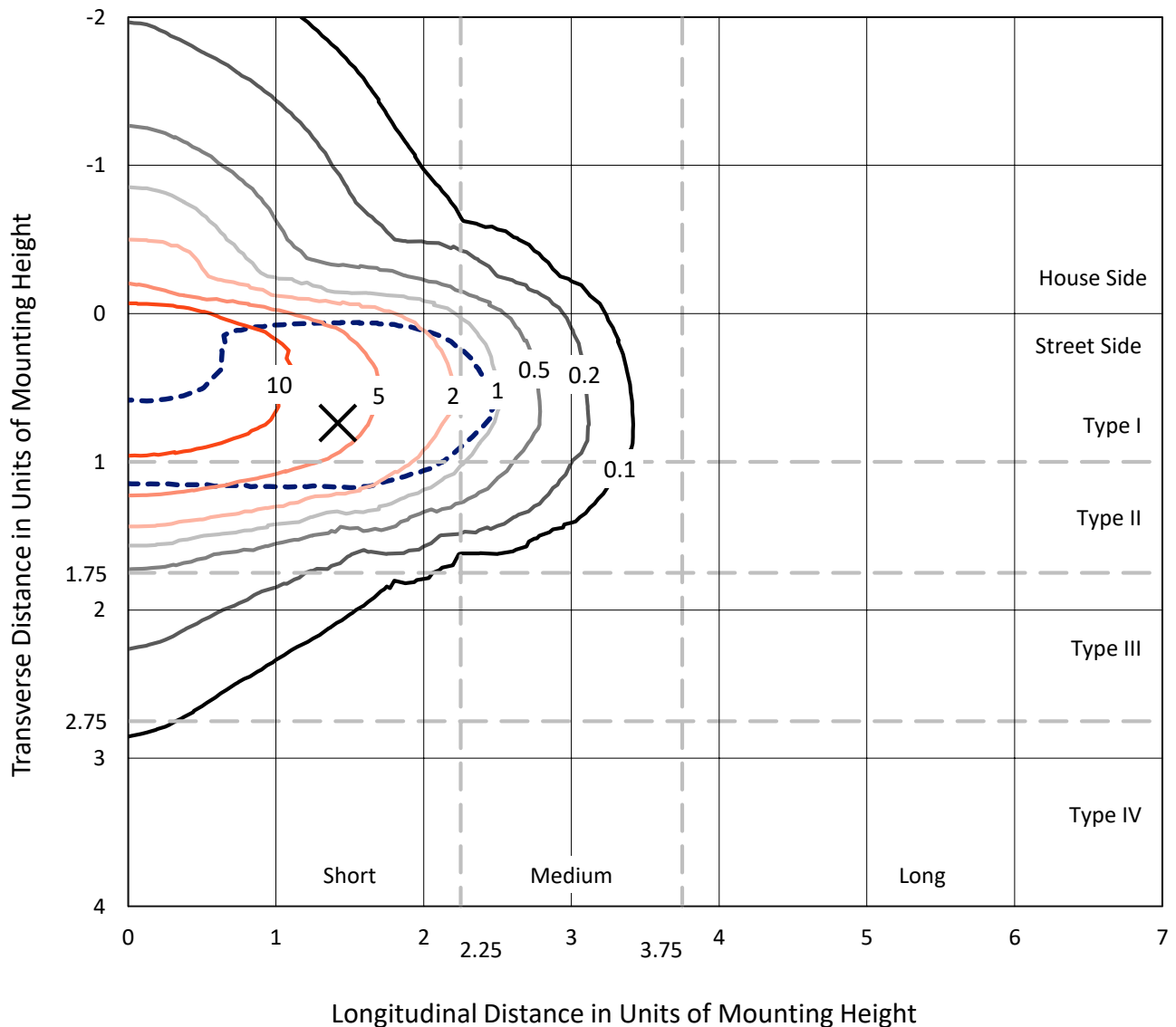
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

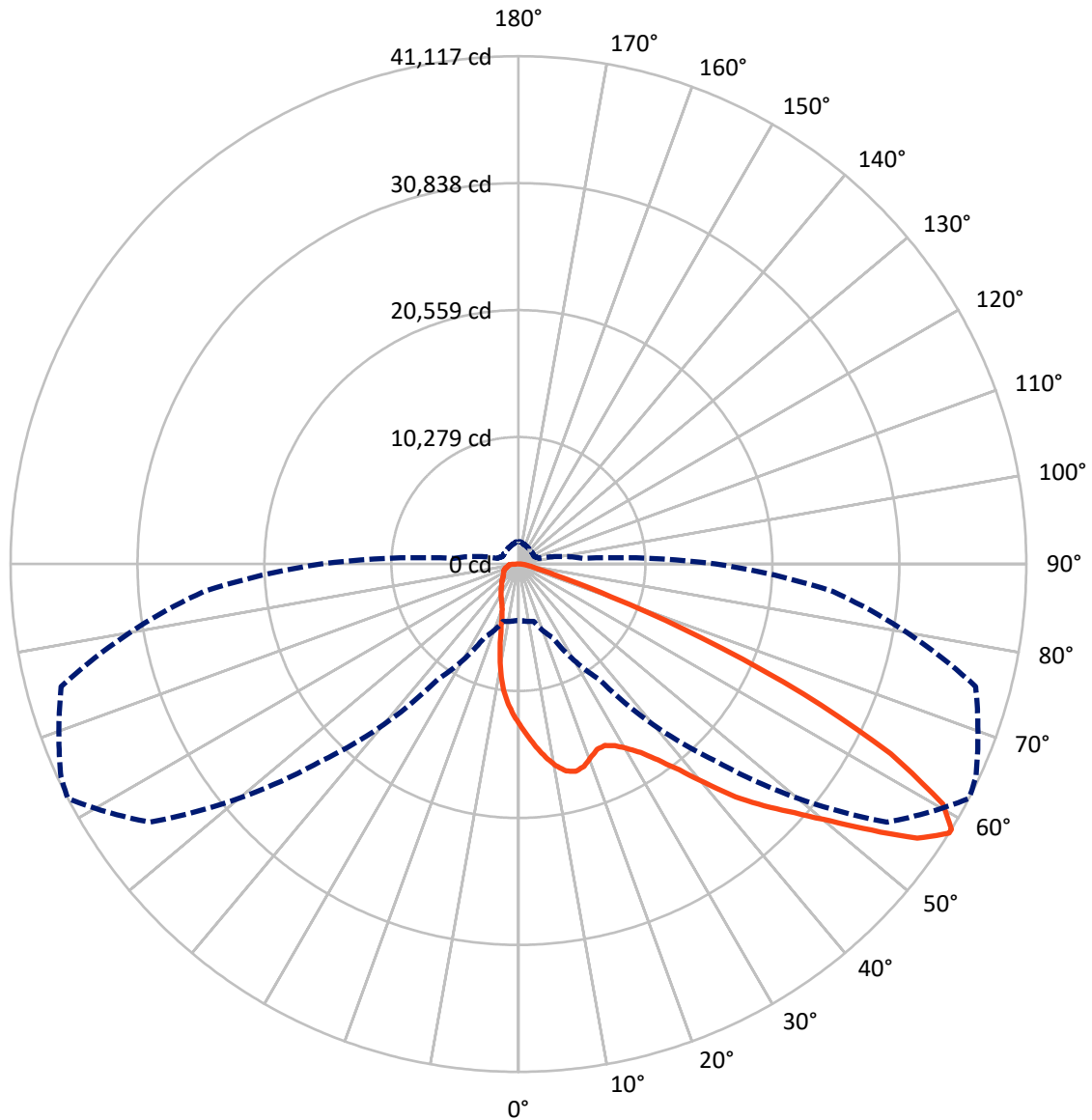
✕ Max cd  
 - - - 1/2 Max cd



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	7463.9	0.0	7463.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	41478.2	0.0	41478.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	48942.0	0.0	48942.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1162.7	2.4
10°-20°	2972.0	6.1
20°-30°	4804.4	9.8
30°-40°	7627.0	15.6
40°-50°	11159.8	22.8
50°-60°	11672.2	23.8
60°-70°	6896.0	14.1
70°-80°	1942.6	4.0
80°-90°	705.3	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°	48942.0	100.0
0°-180°	48942.0	100.0



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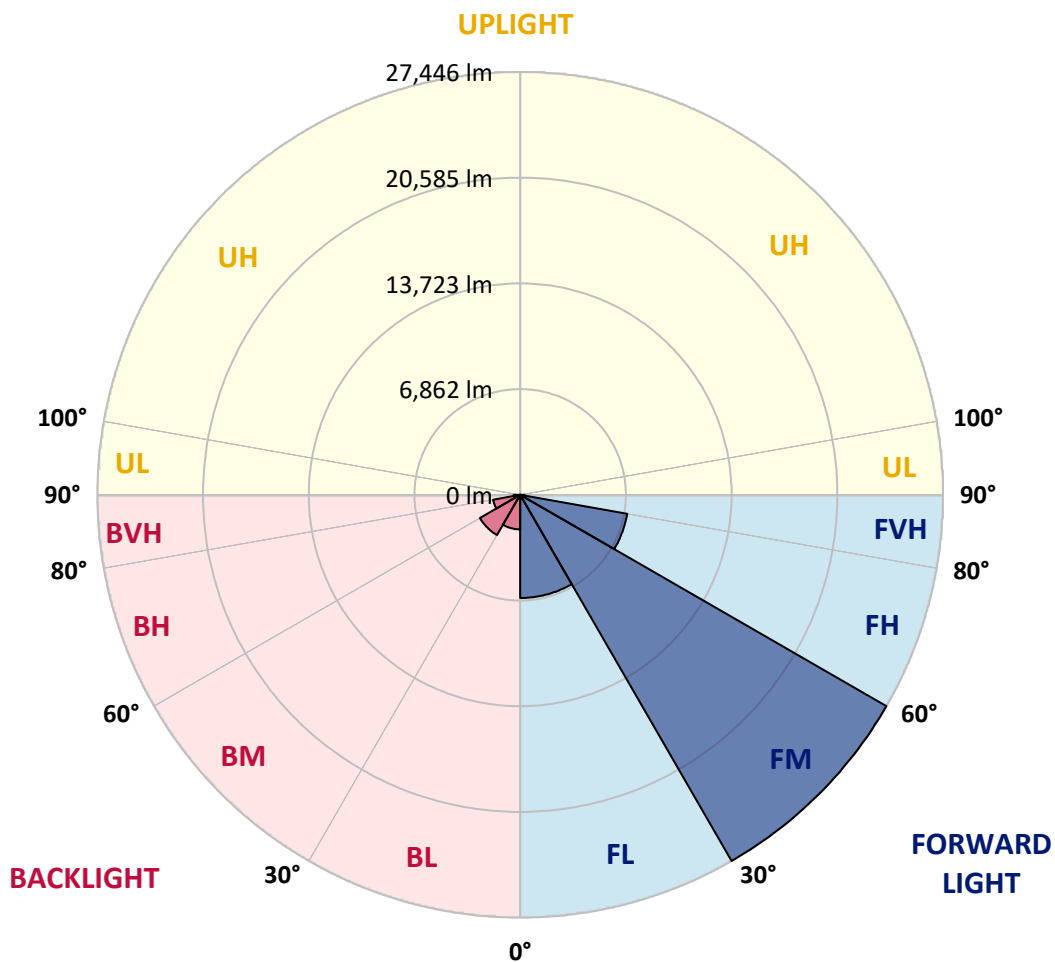
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6695.9	13.7			
FM (30°-60°)	27446.4	56.1			
FH (60°-80°)	7057.6	14.4			G3/7500
FVH (80°-90°)	278.2	0.6			G3/500
BL (0°-30°)	2243.3	4.6	B3/2500		
BM (30°-60°)	3012.6	6.2	B3/5000		
BH (60°-80°)	1781.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	427.0	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°	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4
2.5°	14855.7	14735.8	14659.8	14592.9	14505.4	14318.7	14067.5	13908.5	13827.8	13553.6	13228.6
5°	16312.2	16206.2	16127.8	16038.0	15881.2	15588.6	15182.9	14860.3	14701.3	14152.8	13502.9
7.5°	15971.1	16014.9	16150.9	16388.3	16591.1	16551.9	16190.1	15779.8	15570.1	14807.3	13820.9
10°	13915.4	13991.4	14226.5	14781.9	15680.7	16602.6	16883.8	16600.3	16388.3	15454.9	14148.2
12.5°	13502.9	13500.6	13519.0	13666.5	14201.2	15498.7	16906.8	17192.6	17065.8	16072.5	14482.3
15°	13671.1	13675.7	13661.9	13724.1	13890.0	14404.0	16201.6	17420.7	17510.6	16694.8	14828.0
17.5°	14113.6	14102.1	14049.1	14049.1	14109.0	14309.5	15371.9	17208.7	17623.5	17245.6	15132.2
20°	14855.7	14802.7	14662.1	14533.0	14468.5	14576.8	15030.8	16720.1	17427.6	17727.3	15383.4
22.5°	15754.5	15713.0	15484.8	15208.3	14984.7	14982.4	15206.0	16293.8	17088.9	18181.3	15595.5
25°	16916.0	16849.2	16510.4	16067.9	15676.1	15526.3	15588.6	16273.0	16904.5	18674.5	15784.4
27.5°	18280.4	18158.2	17757.2	17118.8	16542.7	16240.8	16150.9	16648.7	17072.7	19285.2	16047.2
30°	19935.1	19794.5	19280.6	18448.6	17635.1	17139.6	16948.3	17314.7	17630.5	20029.6	16468.9
32.5°	21818.0	21615.2	21020.6	20103.3	19034.0	18278.1	17966.9	18195.1	18446.3	20926.1	16996.7
35°	24419.9	24177.9	23318.3	22053.1	20845.4	19806.0	19308.2	19474.2	19718.5	22262.8	17759.5
37.5°	26194.5	26086.2	25514.6	24325.4	23011.8	21815.7	21045.9	21142.7	21281.0	23933.6	18736.7
40°	26178.3	26222.1	26233.7	26245.2	25351.0	24205.6	23378.2	23276.8	23249.2	25768.1	19847.5
42.5°	24867.0	25046.8	25627.5	26805.2	27349.1	26823.6	26065.4	25772.7	25627.5	27929.9	21025.2
45°	22859.7	22956.5	24044.3	26344.3	28372.4	29416.4	28842.5	27920.7	27657.9	29916.5	22002.3
47.5°	21824.9	21930.9	22615.4	25122.8	28360.8	31511.3	31843.1	30087.0	29616.9	31644.9	22845.8
50°	19361.2	19582.5	20444.4	22998.0	27326.1	32474.6	34979.7	32668.2	31695.6	33327.3	23691.6
52.5°	14837.2	15178.3	16144.0	19504.1	24701.1	31997.6	37489.5	35797.9	34424.3	35069.6	24417.6
55°	9359.1	9612.6	10423.9	13774.8	19759.9	29515.5	38441.3	39183.4	37961.9	36719.7	25046.8
57.5°	5088.6	5201.6	5505.8	7605.3	12852.9	24028.1	37053.9	41110.1	40603.1	38121.0	25521.5
58°	4554.0	4630.0	4819.0	6591.3	11398.7	22527.8	36438.6	41117.0	40863.5	38326.1	25558.4
60°	3378.6	3339.4	3171.2	3761.2	6344.7	15563.2	32718.9	39471.5	40215.9	38577.3	25378.6
62.5°	2968.4	2873.9	2530.5	2491.3	3085.9	7169.7	25035.2	33811.3	35569.7	37143.8	24286.2
65°	2788.6	2687.2	2244.7	2101.8	2226.3	3032.9	14747.4	25357.9	27563.4	32797.3	21493.0
67.5°	2654.9	2523.6	2062.6	1866.8	1876.0	2005.0	5911.4	15971.1	18453.2	24901.6	16717.8
70°	2525.9	2383.0	1908.2	1682.4	1629.4	1585.6	2350.7	7994.8	10246.4	15729.1	10658.9
72.5°	2387.6	2247.0	1772.3	1537.2	1433.5	1288.3	1534.9	3270.3	4567.8	7441.7	4835.1
75°	2187.1	2060.3	1636.3	1408.1	1260.6	1067.0	1159.2	1707.7	2048.8	2963.8	2330.0
77.5°	1940.5	1836.8	1484.2	1302.1	1117.7	866.5	891.9	1184.6	1313.6	1696.2	1385.1
80°	1394.3	1431.2	1320.6	1170.8	995.6	702.9	684.5	864.2	933.4	1090.1	901.1
82.5°	979.5	1000.2	1092.4	956.4	822.8	553.1	504.7	608.4	649.9	716.7	486.3
85°	675.3	652.2	749.0	666.0	594.6	368.7	345.7	412.5	437.9	444.8	251.2
87.5°	405.6	405.6	433.3	357.2	320.3	191.3	186.7	235.1	251.2	239.7	138.3
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°	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4	13000.4
2.5°	13035.0	12871.4	12523.4	12244.5	11891.9	11525.5	11320.4	11101.4	10951.6	10843.3	11016.2
5°	13134.1	12799.9	12080.9	11398.7	10645.1	9861.5	9266.9	8713.8	8329.0	8089.3	8315.1
7.5°	13290.8	12776.9	11631.5	10465.3	9112.5	7808.1	6642.0	5911.4	5485.0	5275.3	5406.7
10°	13470.6	12740.0	11103.7	9200.1	7264.2	5621.0	4749.9	4454.9	4358.1	4318.9	4337.3
12.5°	13620.4	12661.7	10456.1	7669.8	5455.1	4438.7	4187.5	4180.6	4201.3	4206.0	4212.9
15°	13726.4	12546.4	9495.1	6075.0	4362.7	4044.6	4030.8	4072.3	4111.5	4127.6	4136.8
17.5°	13797.8	12309.1	8409.6	4802.9	3908.7	3853.3	3885.6	3938.6	3980.1	3991.6	4000.8
20°	13790.9	11961.1	7116.7	4005.5	3662.1	3662.1	3717.4	3758.9	3761.2	3747.3	3754.3
22.5°	13719.5	11484.0	5863.0	3581.4	3443.1	3482.3	3537.6	3498.4	3337.1	3231.1	3238.0
25°	13599.7	10914.8	4789.0	3311.8	3240.3	3309.5	3293.3	2998.3	2767.9	2664.2	2664.2
27.5°	13493.6	10241.8	3964.0	3076.7	3037.5	3122.8	2837.0	2569.7	2472.9	2424.5	2408.3
30°	13417.6	9515.8	3413.2	2850.8	2846.2	2784.0	2461.4	2387.6	2371.5	2332.3	2318.5
32.5°	13436.0	8780.7	3060.6	2652.6	2668.8	2383.0	2281.6	2297.7	2283.9	2242.4	2224.0
35°	13588.1	8082.4	2830.1	2472.9	2424.5	2152.5	2175.6	2205.5	2200.9	2143.3	2124.9
37.5°	13860.1	7420.9	2678.0	2323.1	2115.7	2037.3	2074.2	2120.3	2108.7	2069.6	2055.7
40°	14145.8	6798.7	2553.5	2205.5	1933.6	1958.9	1991.2	2016.6	2028.1	2039.6	2030.4
42.5°	14424.7	6148.8	2401.4	2085.7	1857.5	1885.2	1899.0	1924.4	1986.6	2030.4	2028.1
45°	14590.6	5538.0	2244.7	1915.2	1797.6	1813.7	1804.5	1855.2	1931.3	2002.7	2005.0
47.5°	14775.0	5063.3	2120.3	1758.4	1740.0	1751.5	1723.9	1774.6	1843.7	1931.3	1940.5
50°	14998.6	4779.8	2021.2	1634.0	1661.6	1661.6	1654.7	1700.8	1797.6	1899.0	1917.5
52.5°	15252.1	4724.5	1938.2	1544.1	1583.3	1581.0	1587.9	1657.0	1763.0	1862.1	1878.3
55°	15560.9	4874.3	1848.3	1477.3	1507.2	1516.4	1539.5	1617.9	1707.7	1820.7	1827.6
57.5°	15920.4	5178.5	1776.9	1424.3	1438.1	1468.1	1504.9	1576.4	1673.2	1797.6	1804.5
58°	15980.3	5243.0	1765.4	1419.7	1424.3	1458.8	1500.3	1569.5	1666.3	1802.2	1809.1
60°	15982.6	5457.4	1740.0	1398.9	1371.3	1428.9	1475.0	1544.1	1654.7	1818.4	1834.5
62.5°	15415.7	5455.1	1721.6	1369.0	1315.9	1387.4	1440.4	1521.1	1643.2	1857.5	1889.8
65°	13574.3	4957.3	1634.0	1322.9	1272.2	1350.5	1410.4	1504.9	1675.5	2028.1	2048.8
67.5°	10617.5	4063.1	1470.4	1258.3	1214.5	1313.6	1392.0	1502.6	1710.0	2067.3	2081.1
70°	7019.9	3039.8	1290.6	1184.6	1154.6	1269.9	1401.2	1581.0	1670.9	1984.3	1947.4
72.5°	3643.6	2134.1	1145.4	1092.4	1085.5	1230.7	1534.9	1571.8	1631.7	1866.8	1820.7
75°	1912.8	1481.9	1018.6	991.0	1002.5	1221.5	1811.4	1530.3	1581.0	1786.1	1873.7
77.5°	1170.8	1196.1	910.3	898.8	921.9	1193.8	1809.1	1477.3	1507.2	1643.2	1740.0
80°	783.6	970.3	827.4	829.7	845.8	1092.4	1624.8	1394.3	1417.4	1553.3	1652.4
82.5°	495.5	573.9	751.3	790.5	769.7	901.1	1380.5	1269.9	1302.1	1776.9	1878.3
85°	251.2	359.5	652.2	760.5	693.7	631.5	1120.1	1113.1	1129.3	1281.4	1339.0
87.5°	115.2	198.2	509.3	663.7	523.2	394.1	813.5	825.1	889.6	910.3	910.3
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)