

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: P194028

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39714 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

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

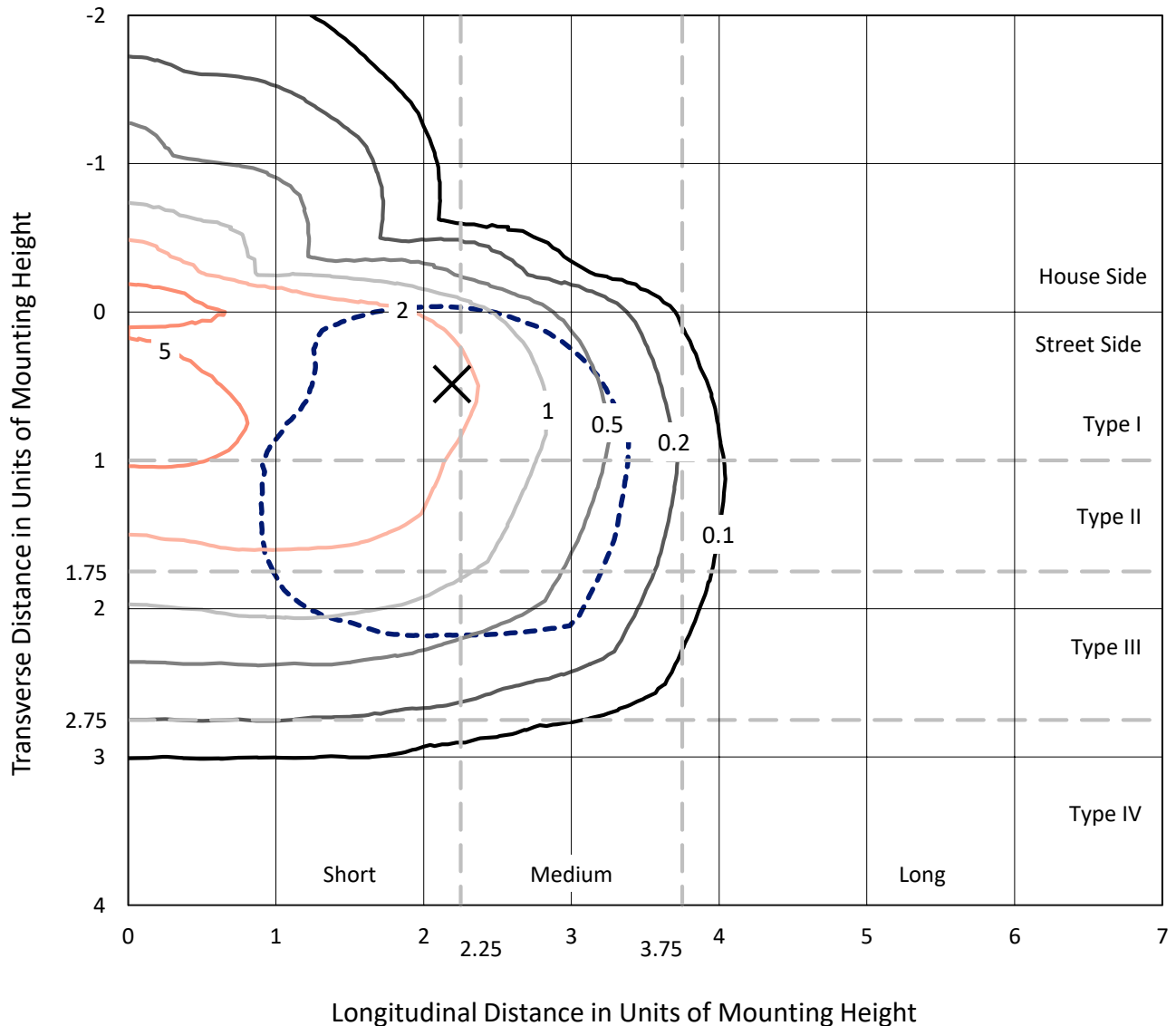


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

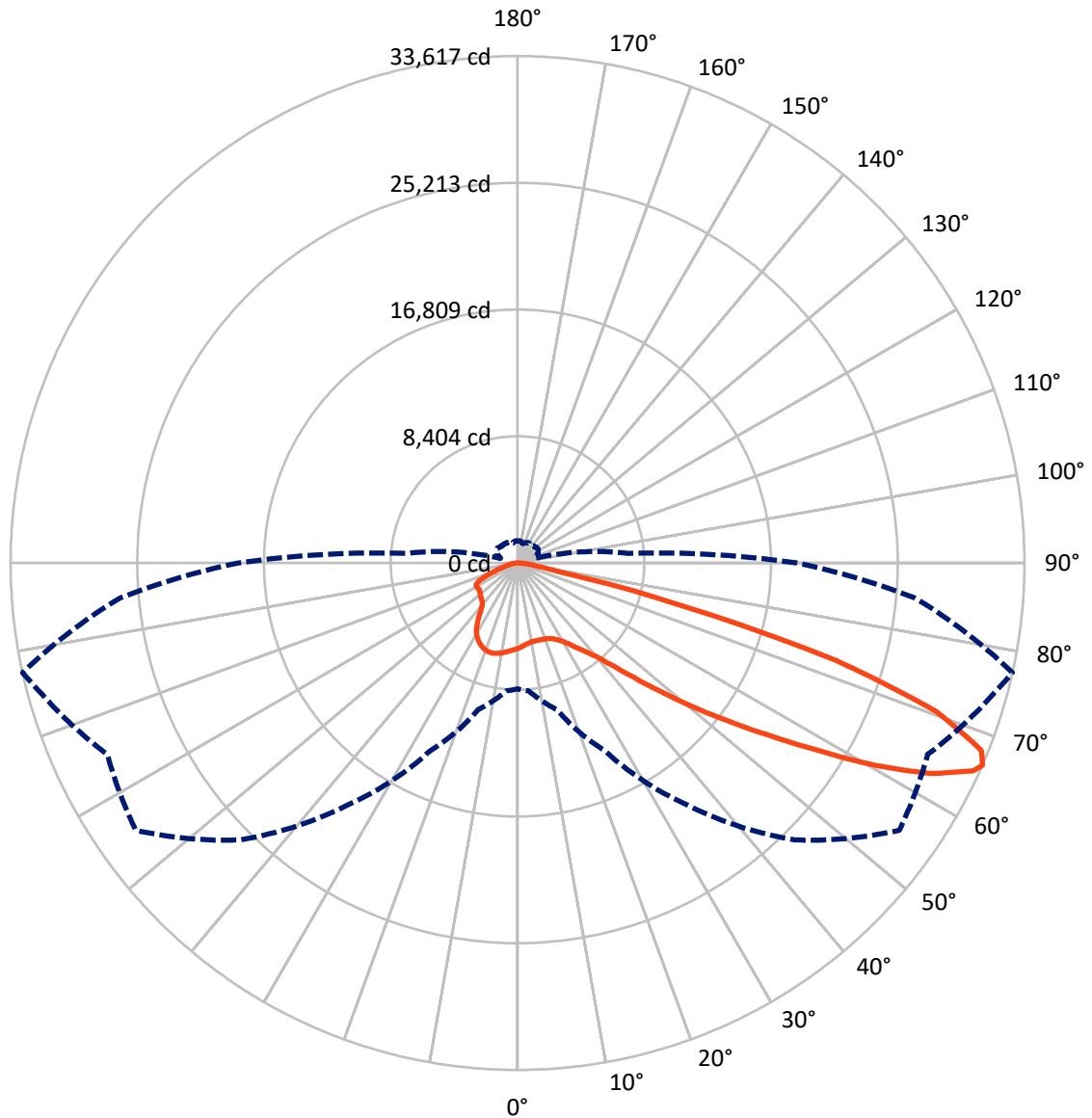


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6784.9	0.0	6784.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	32929.1	0.0	32929.1
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	39714.0	0.0	39714.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.6	1.3
10°-20°	1426.4	3.6
20°-30°	2434.5	6.1
30°-40°	3897.1	9.8
40°-50°	6020.7	15.2
50°-60°	8539.4	21.5
60°-70°	11423.4	28.8
70°-80°	4961.0	12.5
80°-90°	505.9	1.3
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°	39714.0	100.0
0°-180°	39714.0	100.0



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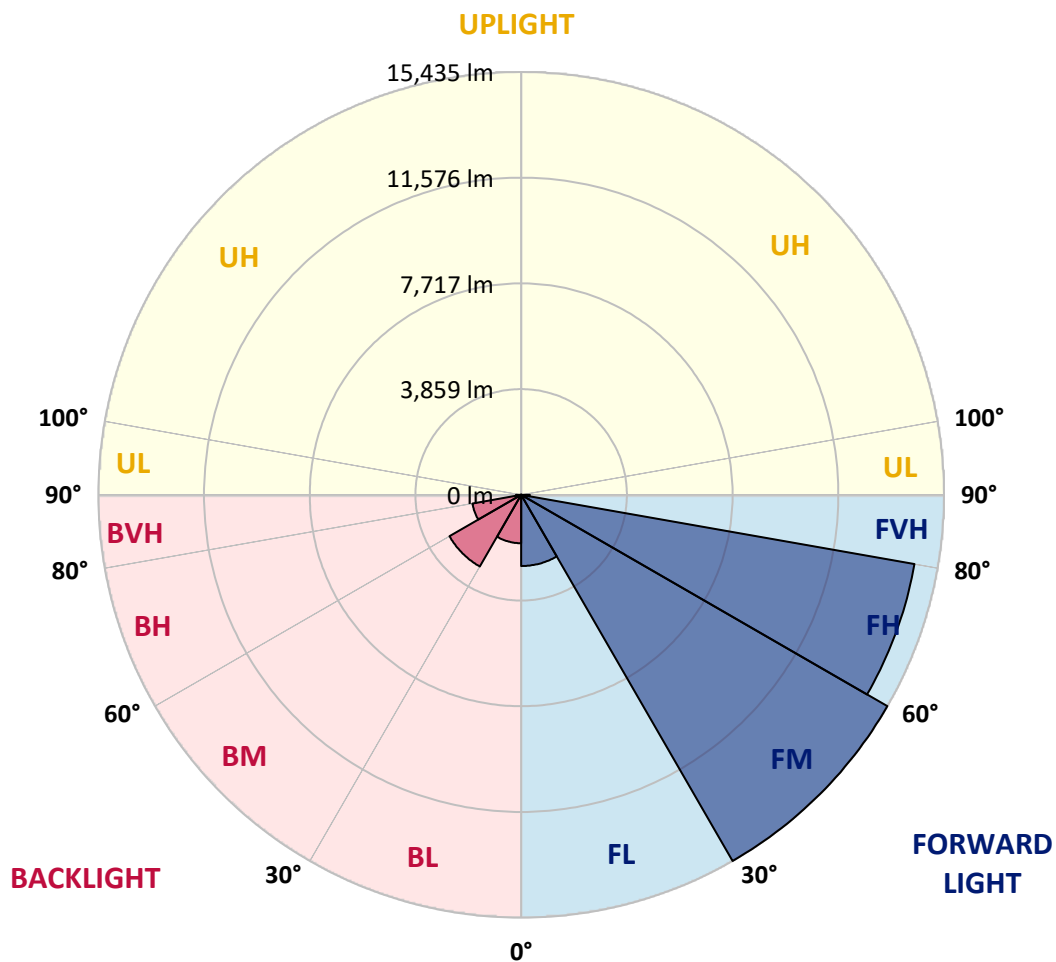
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2599.5	6.5			
FM	(30°-60°)	15434.9	38.9			
FH	(60°-80°)	14577.5	36.7			G5
FVH	(80°-90°)	317.3	0.8			G3/500
BL	(0°-30°)	1767.1	4.4	B3/2500		
BM	(30°-60°)	3022.3	7.6	B3/5000		
BH	(60°-80°)	1806.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	188.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4
2.5°	5006.4	5040.2	5068.3	5094.6	5147.2	5233.5	5332.9	5413.6	5530.0	5552.5	5614.4
5°	4546.7	4546.7	4569.2	4608.6	4679.9	4809.4	4944.5	5124.6	5378.0	5438.0	5603.1
7.5°	4323.4	4325.3	4338.4	4372.2	4434.1	4552.3	4700.6	4912.6	5256.0	5355.4	5636.9
10°	4406.0	4387.2	4359.0	4342.2	4351.5	4421.0	4561.7	4798.1	5180.9	5308.5	5712.0
12.5°	4867.6	4831.9	4734.3	4604.9	4481.0	4430.3	4512.9	4743.7	5149.0	5297.3	5811.4
15°	5621.9	5606.9	5424.9	5156.5	4856.3	4604.9	4548.6	4723.1	5152.8	5310.4	5929.6
17.5°	6567.6	6547.0	6306.8	5916.5	5426.8	4937.0	4674.3	4740.0	5165.9	5332.9	6044.1
20°	7522.8	7459.0	7200.0	6734.7	6106.0	5389.2	4882.6	4783.1	5182.8	5357.3	6164.2
22.5°	8235.8	8183.3	7950.6	7498.4	6774.1	5912.8	5162.2	4858.2	5237.2	5428.6	6312.4
25°	8862.6	8866.3	8635.5	8198.3	7449.6	6468.2	5522.5	5059.0	5376.1	5575.0	6515.1
27.5°	9637.6	9592.5	9376.7	8943.3	8117.6	7029.3	5957.8	5334.8	5582.5	5783.3	6781.6
30°	10564.5	10532.6	10283.1	9791.4	8858.8	7631.6	6455.1	5655.7	5849.0	6057.2	7130.6
32.5°	11654.8	11639.7	11380.8	10748.4	9714.5	8340.9	7038.6	6079.8	6246.8	6462.6	7631.6
35°	12934.5	12936.4	12630.5	11870.5	10650.8	9166.6	7701.0	6625.8	6730.9	6956.1	8228.3
37.5°	13722.6	13818.3	13703.9	12928.9	11711.0	10089.8	8560.5	7350.1	7282.6	7509.6	8868.2
40°	13891.5	14007.8	14370.0	13975.9	12897.0	11106.8	9322.3	8046.3	7961.9	8239.6	9692.0
42.5°	13655.1	13816.4	14582.0	14859.8	14156.1	12360.3	10346.9	9080.2	8973.3	9346.7	10716.5
45°	13514.3	13634.4	14520.1	15319.5	15248.2	13777.0	11651.0	10378.8	10339.4	10829.1	11898.7
47.5°	13270.4	13379.2	14231.1	15426.5	15889.9	15075.6	13217.9	11966.2	12043.2	12684.9	13232.9
50°	13401.7	13446.8	13908.4	15154.4	16075.7	16026.9	14968.6	13805.2	14067.9	14869.1	14743.4
52.5°	13383.0	13499.3	13870.9	14707.8	16100.1	16614.3	16693.1	15856.2	16409.7	17329.2	16419.1
55°	10819.7	11033.6	13429.9	14595.2	16186.4	17190.3	18228.0	18017.9	19049.9	20121.4	18310.6
57.5°	10331.8	10467.0	11795.5	14831.6	16644.3	18290.0	19935.6	20397.2	22123.6	23367.7	20614.9
60°	10236.1	10403.2	11778.6	15120.6	17573.1	20082.0	22467.0	23277.6	25863.4	27225.7	23287.0
62.5°	9937.8	10117.9	11667.9	15083.1	18892.3	22560.8	25707.6	26340.0	29409.9	30734.7	25521.9
65°	8992.0	9160.9	10765.3	14477.0	19781.7	25206.6	29543.1	29147.2	32209.6	33206.0	26636.5
66°	8344.7	8509.8	10054.1	13763.9	19575.3	25957.2	30901.7	30016.0	32836.3	33617.0	26418.8
67.5°	7160.6	7290.1	8673.0	12167.0	18477.6	26167.4	32044.5	30669.0	32902.0	33177.9	25174.7
70°	4524.2	4561.7	5636.9	8399.1	13987.2	22694.0	30305.0	29047.8	30188.7	29441.8	21104.7
72.5°	1962.8	1949.7	2705.9	4272.7	7918.7	15227.6	24514.2	23968.2	23681.1	21977.2	14773.4
75°	1092.1	1107.1	1405.5	1983.4	3218.1	7479.6	16036.3	15345.8	12957.0	11056.2	6699.0
77.5°	876.3	897.0	1165.3	1407.4	1444.9	2608.3	7504.0	6106.0	3676.0	2949.8	1861.5
80°	692.4	729.9	1017.0	1095.9	973.9	1075.2	2424.4	1938.4	1454.3	1334.2	964.5
82.5°	547.9	574.2	872.6	829.4	681.2	724.3	1161.5	1131.5	945.7	861.3	557.3
85°	394.1	442.8	716.8	624.9	446.6	487.9	771.2	739.3	542.3	442.8	245.8
87.5°	161.4	210.2	506.6	414.7	249.6	227.1	384.7	362.2	257.1	187.6	122.0
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°	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4
2.5°	5653.8	5698.8	5757.0	5792.7	5811.4	5824.6	5845.2	5843.3	5849.0	5850.8	5858.3
5°	5691.3	5766.4	5850.8	5873.4	5873.4	5852.7	5832.1	5798.3	5785.2	5781.4	5785.2
7.5°	5788.9	5871.5	5944.7	5918.4	5862.1	5779.5	5672.6	5578.7	5528.1	5511.2	5507.4
10°	5912.8	6012.2	6042.2	5942.8	5777.7	5578.7	5366.7	5212.8	5124.6	5100.2	5092.7
12.5°	6062.9	6156.7	6115.4	5905.3	5599.4	5278.5	4985.8	4740.0	4556.1	4497.9	4494.1
15°	6228.0	6301.2	6156.7	5788.9	5332.9	4860.1	4338.4	3914.3	3685.4	3612.2	3606.6
17.5°	6381.9	6419.4	6132.3	5586.3	4940.7	4175.1	3482.7	3156.2	3077.4	3096.2	3099.9
20°	6513.2	6513.2	6049.7	5295.4	4323.4	3272.6	2835.3	2829.7	2886.0	2942.3	2953.6
22.5°	6657.7	6571.4	5905.3	4884.5	3449.0	2677.7	2613.9	2666.5	2730.3	2792.2	2801.6
25°	6836.0	6618.3	5704.5	4261.5	2711.5	2431.9	2456.3	2499.5	2531.4	2570.8	2576.4
27.5°	7034.9	6678.4	5439.9	3403.9	2353.1	2278.0	2296.8	2311.8	2308.1	2323.1	2326.8
30°	7273.2	6747.8	5077.7	2660.8	2204.9	2146.7	2112.9	2099.8	2099.8	2124.2	2133.5
32.5°	7592.2	6851.0	4557.9	2279.9	2133.5	2052.9	1944.0	1895.2	1914.0	1996.6	2015.3
35°	7943.1	6961.7	3854.3	2150.4	2118.5	2009.7	1840.8	1750.7	1752.6	1829.6	1854.0
37.5°	8325.9	7102.4	3083.0	2126.0	2152.3	2011.6	1786.4	1662.6	1611.9	1611.9	1621.3
40°	8815.7	7246.9	2495.7	2142.9	2223.6	2034.1	1758.3	1593.1	1450.5	1454.3	1461.8
42.5°	9453.7	7370.8	2180.5	2178.6	2309.9	2064.1	1756.4	1501.2	1377.3	1461.8	1538.7
45°	10163.0	7432.7	2041.6	2210.5	2379.4	2082.9	1726.4	1486.2	1386.7	1638.2	1784.5
47.5°	10979.2	7397.0	1964.7	2221.7	2396.3	2082.9	1692.6	1521.8	1452.4	1897.1	2067.9
50°	11874.3	7293.8	1889.6	2199.2	2390.6	2079.1	1724.5	1557.5	1476.8	1942.1	2060.4
52.5°	12927.0	7207.5	1810.8	2150.4	2351.2	2058.5	1762.0	1542.5	1399.8	1765.8	1848.3
55°	14127.9	7231.9	1722.6	2081.0	2289.3	2019.1	1748.9	1482.4	1319.2	1555.6	1606.3
57.5°	15662.9	7522.8	1617.5	1992.8	2204.9	1953.4	1702.0	1454.3	1294.8	1411.1	1441.1
60°	17376.1	8029.4	1486.2	1904.6	2099.8	1848.3	1666.3	1467.4	1306.0	1399.8	1414.9
62.5°	18633.3	8324.0	1373.6	1775.1	1957.2	1732.0	1621.3	1484.3	1336.0	1439.3	1435.5
65°	18974.9	7839.9	1232.8	1585.6	1763.9	1610.0	1565.0	1503.1	1349.2	1471.2	1454.3
66°	18496.4	7318.2	1170.9	1497.4	1666.3	1550.0	1536.8	1501.2	1343.6	1474.9	1446.8
67.5°	17334.8	6248.6	1064.0	1367.9	1510.6	1459.9	1491.8	1484.3	1328.5	1471.2	1431.7
70°	14137.3	4263.3	910.1	1139.0	1257.2	1285.4	1405.5	1424.2	1279.8	1405.5	1319.2
72.5°	9877.7	2597.0	805.0	883.8	1017.0	1095.9	1287.3	1341.7	1214.1	1227.2	1144.6
75°	4773.7	1379.2	729.9	684.9	790.0	915.7	1144.6	1229.1	1110.9	1026.4	996.4
77.5°	1488.0	842.5	619.2	551.7	619.2	739.3	957.0	1077.1	988.9	859.4	848.2
80°	799.4	619.2	476.6	442.8	489.8	579.8	752.5	898.8	850.0	771.2	688.7
82.5°	527.3	401.6	352.8	343.4	373.4	442.8	559.2	745.0	745.0	660.5	480.4
85°	272.1	245.8	242.1	242.1	260.8	294.6	380.9	574.2	611.7	349.0	289.0
87.5°	135.1	140.7	131.4	137.0	146.4	144.5	182.0	289.0	345.3	212.0	176.4
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)