

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: P269745

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51199 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 558  
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

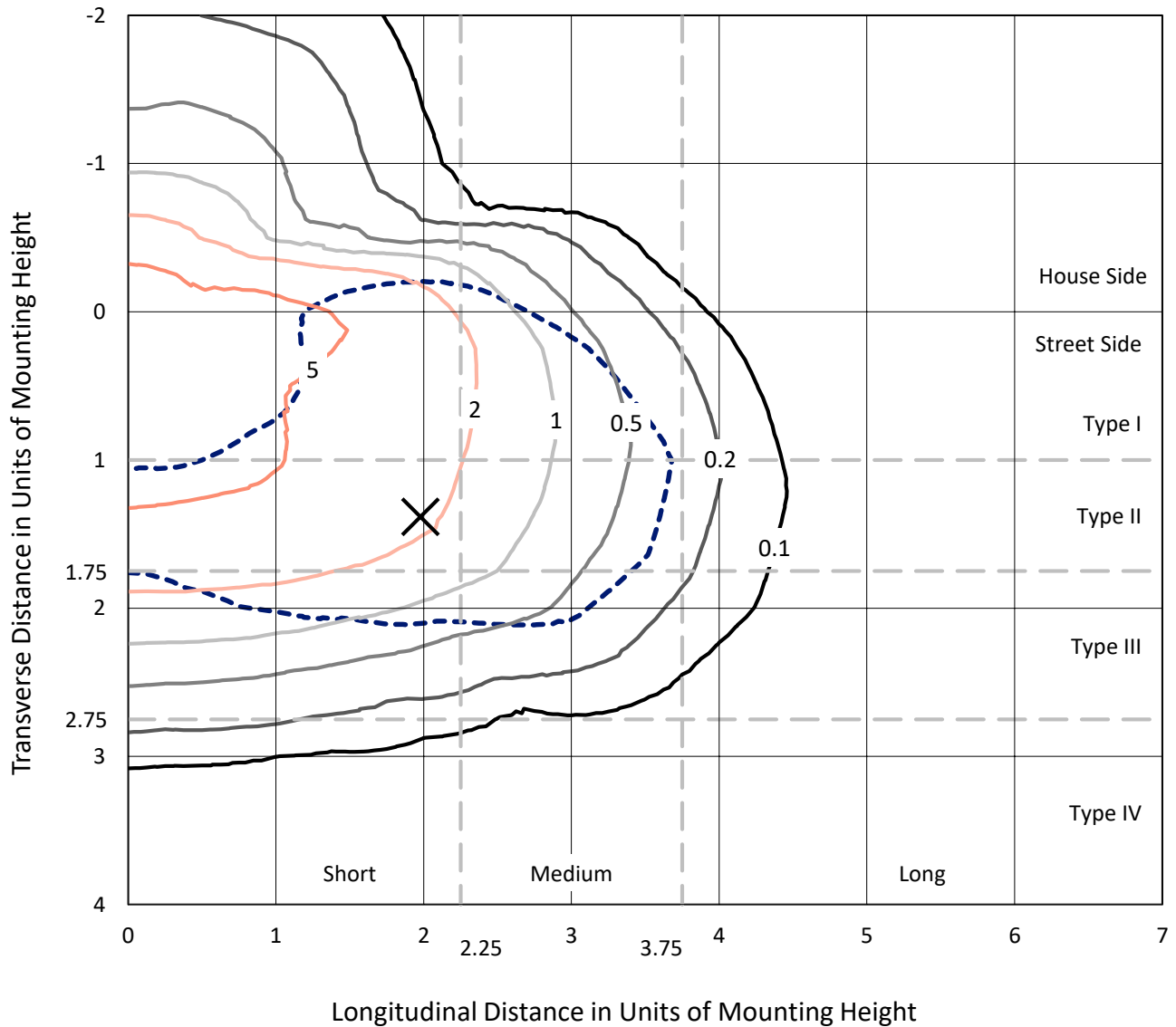


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

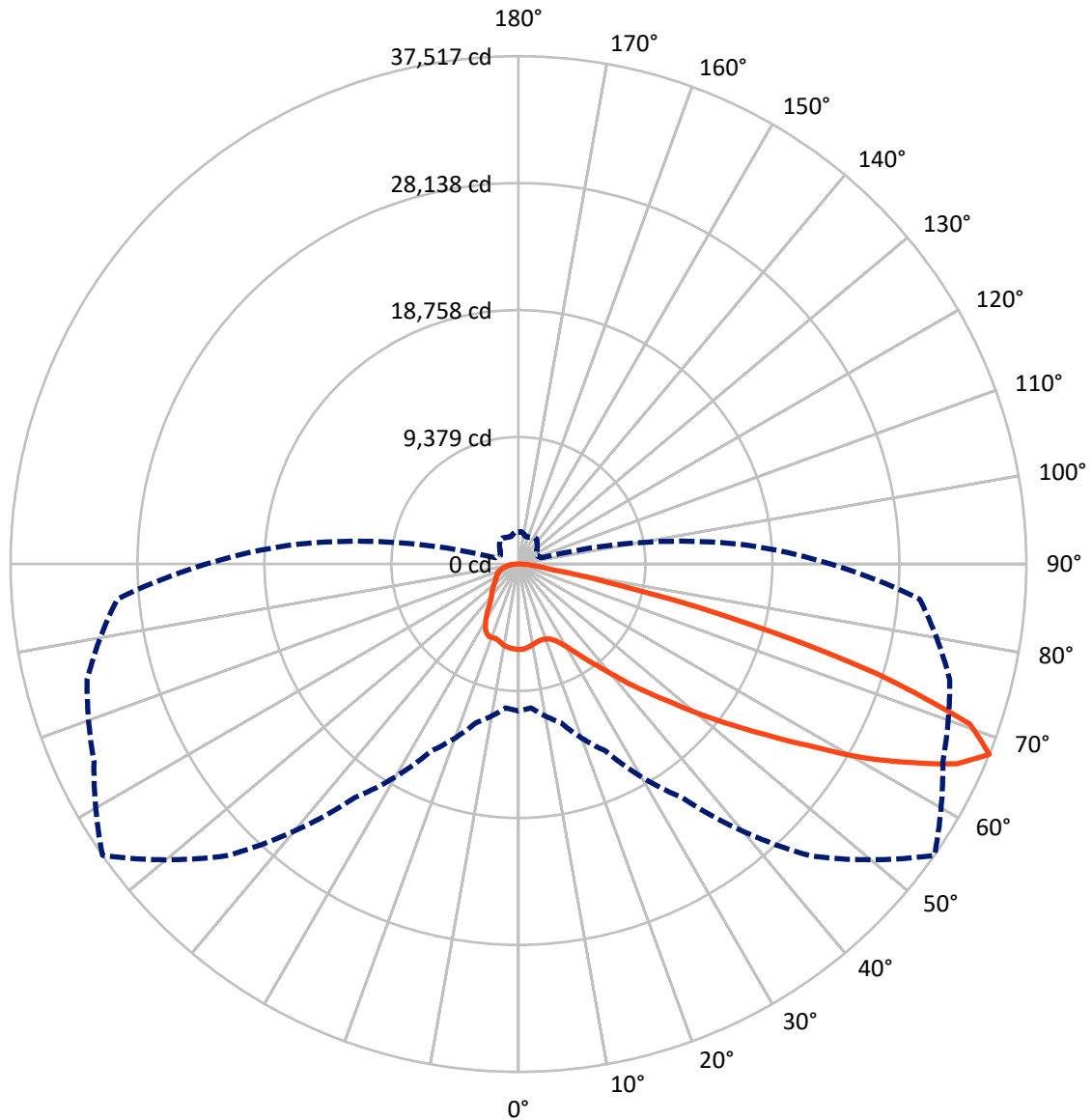


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11060.1	0.0	11060.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	40138.9	0.0	40138.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	51199.0	0.0	51199.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.3	1.2
10°-20°	1668.9	3.3
20°-30°	2795.7	5.5
30°-40°	4597.3	9.0
40°-50°	7738.7	15.1
50°-60°	12180.2	23.8
60°-70°	14535.8	28.4
70°-80°	6241.9	12.2
80°-90°	851.0	1.7
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°	51199.0	100.0
0°-180°	51199.0	100.0



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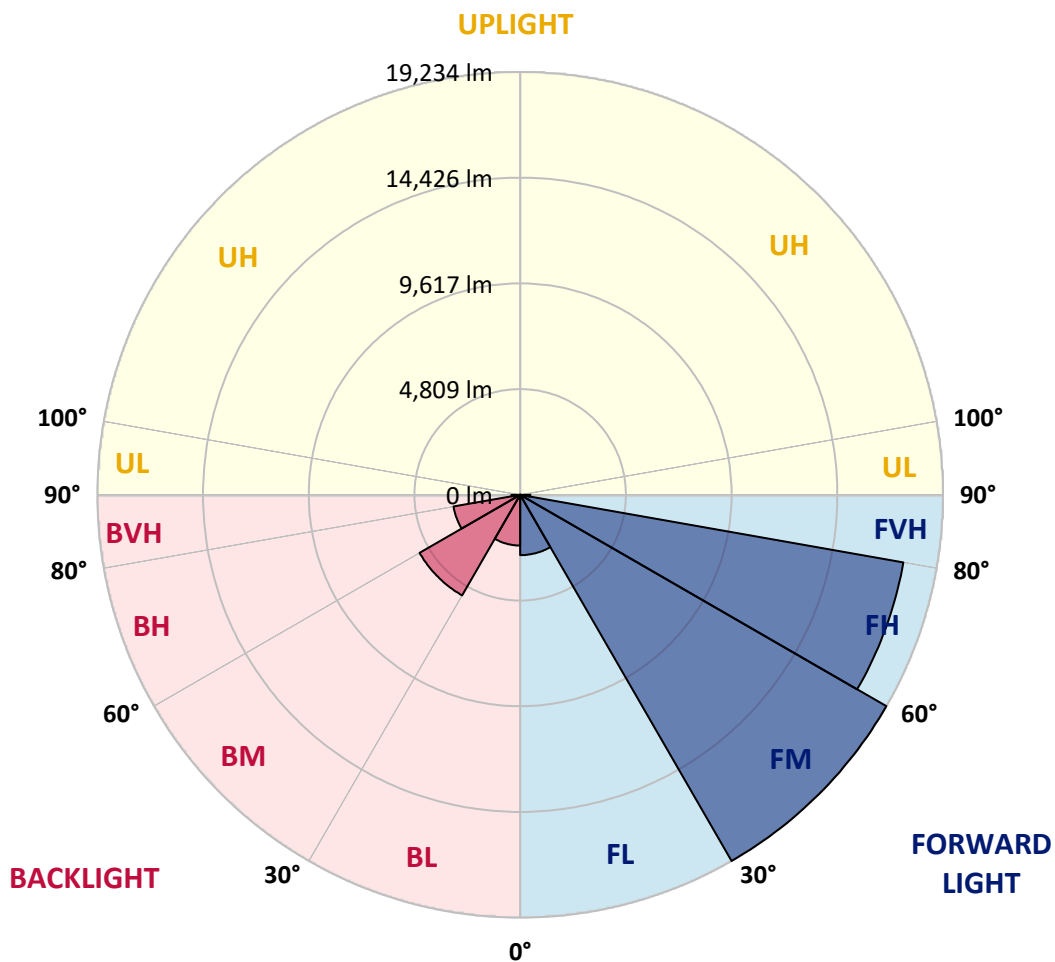
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2744.4	5.4			
FM	(30°-60°)	19234.1	37.6			
FH	(60°-80°)	17699.7	34.6			G5
FVH	(80°-90°)	460.7	0.9			G3/500
BL	(0°-30°)	2309.6	4.5	B3/2500		
BM	(30°-60°)	5282.2	10.3	B4/8500		
BH	(60°-80°)	3078.0	6.0	B4/5000		G4/5000
BVH	(80°-90°)	390.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4
2.5°	6259.0	6261.5	6266.3	6286.2	6303.4	6298.6	6301.0	6291.1	6288.7	6273.9	6288.7
5°	6179.9	6187.3	6189.7	6221.9	6241.7	6246.6	6239.2	6226.8	6212.0	6197.1	6204.7
7.5°	5999.3	6019.2	6021.6	6066.2	6098.2	6140.3	6142.8	6145.2	6137.8	6127.9	6142.8
10°	5885.5	5890.5	5888.0	5920.2	5945.0	5992.0	6019.2	6066.2	6085.8	6090.9	6100.7
12.5°	5878.1	5873.2	5865.8	5865.8	5858.3	5878.1	5927.6	5994.4	6041.5	6056.3	6068.6
15°	5957.3	5954.9	5930.2	5893.1	5846.0	5831.2	5873.2	5947.4	6009.2	6041.5	6053.8
17.5°	6135.3	6120.5	6080.9	5996.8	5895.4	5856.0	5860.8	5922.6	5994.4	6036.4	6048.7
20°	6461.8	6461.8	6377.6	6219.4	6038.9	5945.0	5900.3	5937.4	6006.7	6063.6	6080.9
22.5°	7025.6	7030.6	6889.6	6629.9	6325.8	6125.5	6014.2	6006.7	6088.4	6152.6	6172.4
25°	7824.3	7804.6	7606.8	7235.8	6773.4	6441.9	6249.1	6204.7	6273.9	6345.5	6370.3
27.5°	8754.3	8682.5	8447.5	7999.9	7401.4	6916.8	6620.0	6548.4	6615.1	6696.8	6721.4
30°	9674.0	9599.8	9320.5	8830.9	8165.7	7552.3	7127.1	7010.7	7104.8	7220.9	7235.8
32.5°	10594.0	10594.0	10282.4	9711.1	8986.6	8311.5	7802.0	7663.6	7819.3	7960.4	7992.5
35°	11694.5	11699.4	11397.8	10710.2	9931.3	9216.6	8655.3	8553.9	8788.7	8887.7	8964.4
37.5°	13047.3	13074.4	12686.1	11855.2	11002.1	10250.3	9582.6	9444.2	9679.1	9948.5	10195.9
40°	14508.6	14543.3	14115.4	13091.7	12238.6	11452.1	10730.1	10480.3	10871.0	11385.4	11704.3
42.5°	15903.5	16081.5	15668.4	14615.1	13697.5	12884.0	12152.0	11788.5	12278.2	13054.6	13331.6
45°	17918.9	18047.5	17327.9	16373.2	15510.2	14600.2	13630.8	13247.5	13932.5	14911.8	14968.6
47.5°	19261.6	19165.2	18799.2	18205.7	17659.2	16808.5	15349.5	14929.1	15839.2	16991.5	16672.5
50°	19976.4	20006.1	19956.6	19991.2	20011.0	19476.8	17456.5	16880.2	17965.8	19358.1	18623.7
52.5°	20643.9	20446.2	20609.5	21420.5	22399.7	22202.0	19748.8	19147.9	20245.9	21984.4	20686.1
55°	20629.1	20327.4	20859.2	22291.0	24415.3	24642.8	22323.2	21630.7	22657.1	24801.0	22872.1
57.5°	19899.7	19914.5	20733.1	22607.6	25819.9	26937.7	25310.5	24271.8	25213.9	27654.9	24867.8
60°	18895.7	19031.8	20211.2	22555.6	26945.1	28819.6	28975.3	27118.2	27719.1	30248.8	26519.8
62.5°	17275.9	17419.4	19046.6	22016.5	26774.4	30632.3	32289.0	30347.8	30337.9	31821.6	27004.4
65°	14721.3	14679.4	16388.0	20001.0	25342.7	31972.6	35580.5	33139.7	32311.3	31846.4	26030.0
67.5°	10856.1	10668.2	12134.7	15233.3	21064.4	30471.4	37516.9	34593.9	32984.0	29751.9	23052.7
70°	5633.4	5445.3	6632.4	8895.1	13853.3	23782.2	35372.7	33842.0	31497.7	24939.6	18059.9
72.5°	2408.6	2376.5	2858.6	3902.2	6701.6	13717.4	27736.3	29291.8	27026.6	18581.6	12416.6
75°	1619.7	1609.9	1790.4	2126.6	3014.5	5566.5	17357.5	20792.3	19773.5	11521.4	6983.6
77.5°	1271.1	1258.7	1365.1	1528.2	1953.6	2195.9	7703.1	11162.8	10331.9	5015.1	3056.6
80°	994.2	984.3	1050.9	1139.9	1404.6	1384.8	2534.7	4441.4	3437.4	1921.5	1486.2
82.5°	784.0	784.0	838.3	840.9	996.6	944.7	1323.1	1956.1	1716.2	1120.2	910.1
85°	717.1	717.1	774.0	628.2	650.5	595.9	821.1	1159.8	1088.0	459.9	395.7
87.5°	361.1	351.1	650.5	556.4	353.7	316.6	400.6	561.4	603.4	254.7	197.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4	6313.4
2.5°	6283.7	6281.3	6286.2	6288.7	6308.4	6335.7	6348.1	6365.3	6375.2	6370.3
5°	6209.5	6214.5	6234.2	6249.1	6283.7	6328.2	6353.0	6372.8	6390.1	6382.6
7.5°	6147.7	6160.0	6189.7	6202.1	6221.9	6234.2	6231.8	6239.2	6254.0	6236.8
10°	6113.1	6127.9	6150.2	6132.9	6085.8	6019.2	5957.3	5925.1	5935.0	5922.6
12.5°	6078.6	6098.2	6080.9	5999.3	5868.3	5781.8	5734.7	5739.7	5761.9	5766.8
15°	6058.7	6066.2	5992.0	5838.7	5705.0	5692.6	5717.4	5712.5	5714.9	5714.9
17.5°	6058.7	6038.9	5900.3	5747.0	5690.3	5667.9	5591.3	5494.8	5452.8	5438.0
20°	6090.9	6038.9	5870.8	5769.4	5645.7	5455.2	5252.5	5074.4	4995.4	4973.0
22.5°	6187.3	6098.2	5954.9	5779.2	5428.1	5109.1	4787.5	4574.9	4431.5	4406.7
25°	6382.6	6283.7	6120.5	5648.2	5081.9	4626.9	4260.9	4023.5	3880.0	3860.2
27.5°	6724.0	6659.7	6209.5	5358.8	4621.9	4134.8	3796.0	3613.0	3506.7	3499.2
30°	7238.3	7206.2	6165.0	4931.1	4055.6	3657.4	3494.2	3387.9	3308.7	3306.3
32.5°	8059.2	7799.7	6019.2	4409.2	3538.8	3318.7	3252.0	3187.6	3125.8	3125.8
35°	9115.2	8279.4	5742.1	3850.3	3224.6	3130.8	3046.6	2945.3	2863.6	2858.6
37.5°	10356.6	8576.1	5245.2	3400.3	3076.3	3004.7	2881.0	2730.0	2586.7	2562.0
40°	11610.5	8665.1	4545.2	3123.2	2982.4	2878.4	2727.7	2549.6	2411.1	2403.7
42.5°	12760.3	8494.6	3803.3	2932.8	2888.4	2749.9	2591.6	2433.4	2324.5	2322.1
45°	13724.8	8051.9	3180.2	2752.3	2789.4	2633.7	2492.6	2364.1	2280.1	2262.7
47.5°	14632.3	7426.2	2742.4	2562.0	2690.6	2569.4	2450.7	2329.6	2247.9	2235.5
50°	15685.8	6751.1	2435.8	2376.5	2603.9	2547.1	2485.3	2359.2	2223.1	2208.4
52.5°	16961.8	6167.6	2195.9	2213.2	2537.3	2576.8	2574.4	2443.3	2205.9	2186.0
55°	18386.2	5519.5	2015.4	2079.8	2510.0	2631.1	2596.6	2522.4	2220.7	2191.1
57.5°	19788.5	4762.9	1889.3	1978.3	2470.5	2626.3	2490.2	2383.9	2255.4	2213.2
60°	20839.4	3746.6	1792.8	1889.3	2383.9	2544.7	2374.0	2233.0	2247.9	2215.8
62.5°	20908.6	2895.7	1676.6	1812.7	2252.8	2463.1	2297.3	2166.4	2280.1	2250.3
65°	19679.6	2188.5	1565.3	1721.2	2111.8	2411.1	2223.1	2129.3	2346.8	2314.7
67.5°	16568.7	1760.7	1471.5	1627.2	1970.9	2302.3	2156.4	2094.6	2406.2	2349.2
70°	11961.7	1501.1	1379.8	1513.5	1844.8	2178.7	2097.1	2032.8	2245.5	2156.4
72.5°	7364.3	1300.7	1276.0	1362.5	1748.5	2050.0	2008.0	1916.5	2022.9	1951.2
75°	3677.2	1127.6	1159.8	1214.1	1612.4	1904.1	1859.6	1768.1	1783.0	1768.1
77.5°	1760.7	964.4	1023.8	1065.7	1436.7	1738.5	1691.5	1597.5	1580.2	1582.6
80°	1115.2	806.1	863.0	892.7	1283.5	1545.5	1498.6	1404.6	1602.4	1486.2
82.5°	697.4	655.4	670.1	724.6	1117.9	1345.3	1283.5	1199.3	1444.1	1142.6
85°	385.8	457.4	477.3	524.3	860.5	1125.1	1063.4	957.1	858.2	843.2
87.5°	230.0	272.0	279.5	314.0	578.7	813.5	719.6	682.5	566.3	563.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)