

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: P269577

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40672.6 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

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

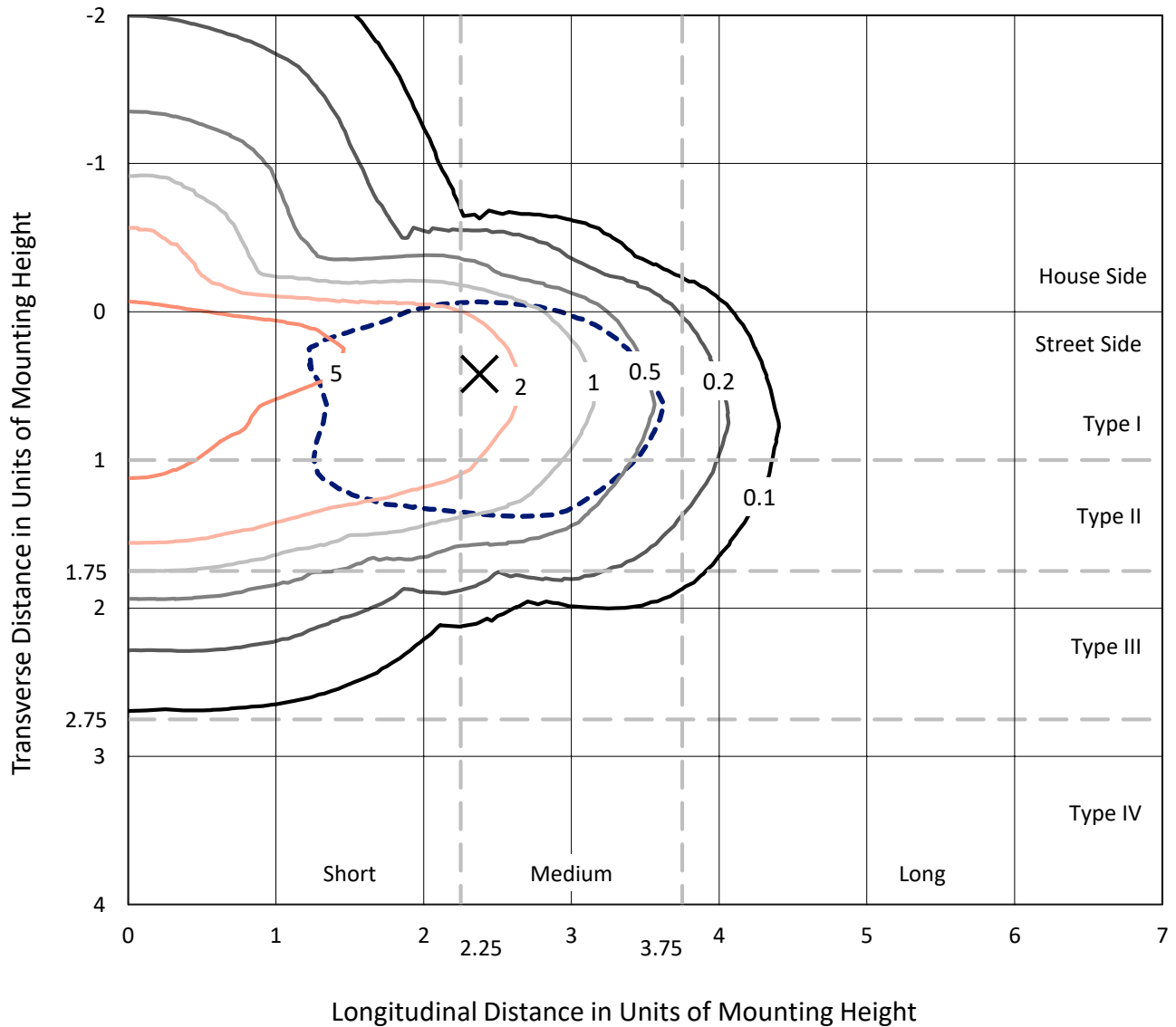


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

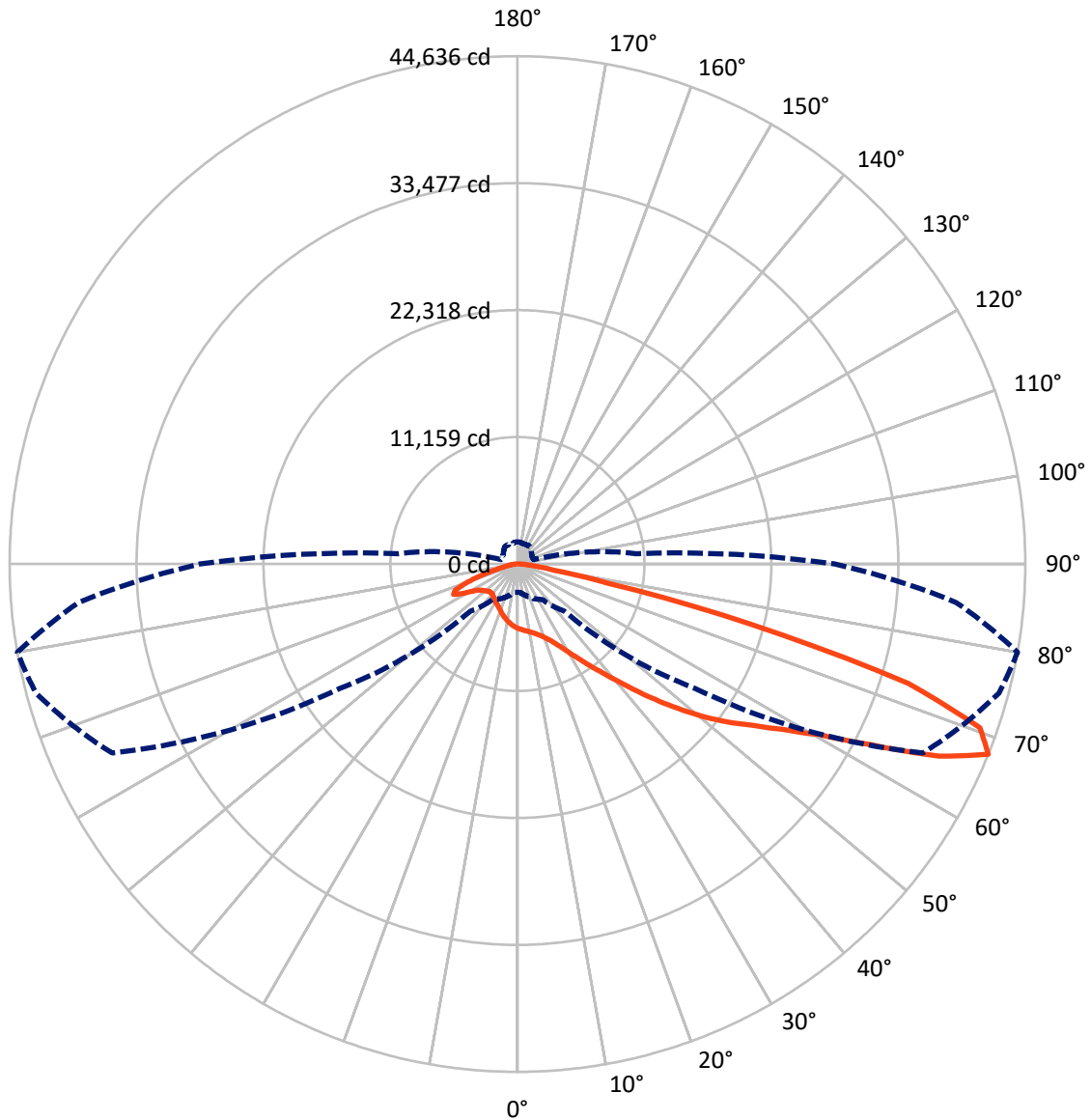


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7490.4	0.0	7490.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	33182.3	0.0	33182.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	40672.6	0.0	40672.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.2	1.3
10°-20°	1501.5	3.7
20°-30°	2485.4	6.1
30°-40°	4065.5	10.0
40°-50°	6564.1	16.1
50°-60°	9476.6	23.3
60°-70°	10458.1	25.7
70°-80°	4820.5	11.9
80°-90°	779.7	1.9
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°	40672.6	100.0
0°-180°	40672.6	100.0



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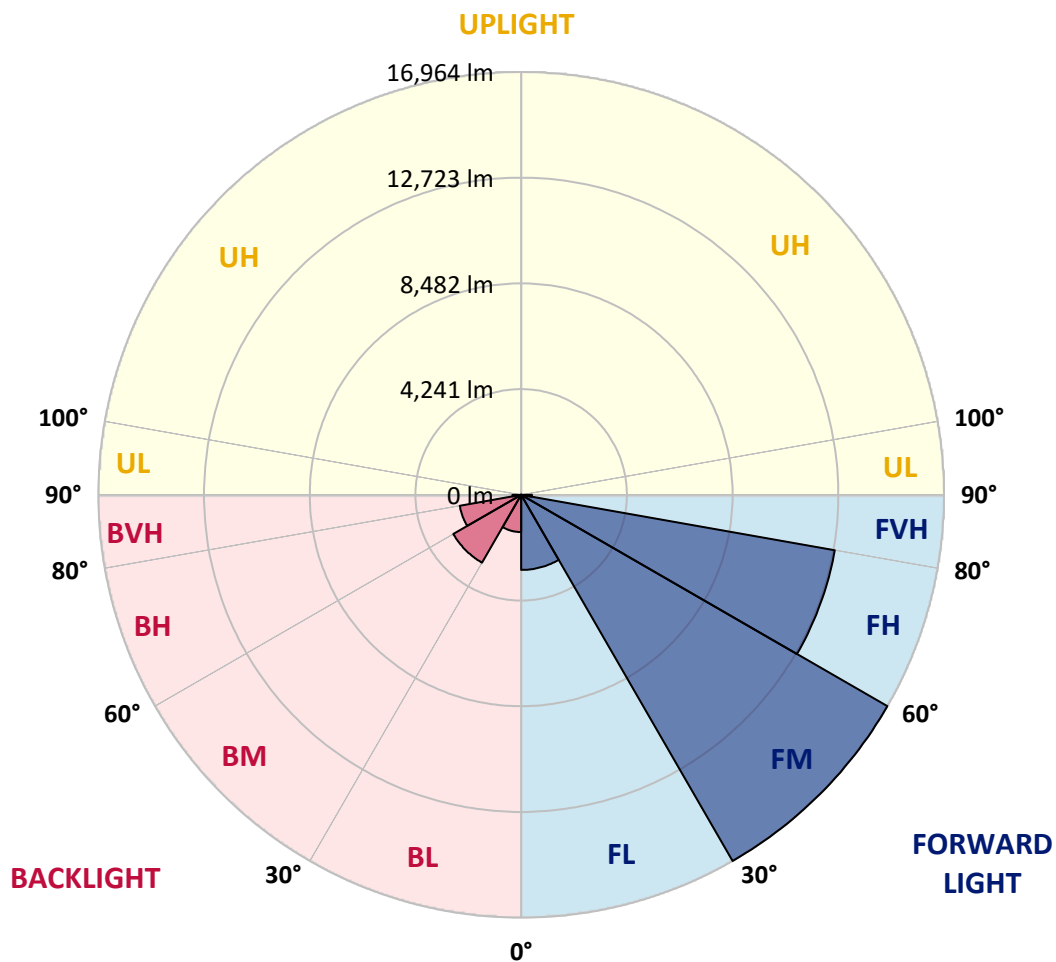
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.8	7.4			
FM (30°-60°)	16963.5	41.7			
FH (60°-80°)	12776.3	31.4			G5
FVH (80°-90°)	428.7	1.1			G3/500
BL (0°-30°)	1494.4	3.7	B3/2500		
BM (30°-60°)	3142.7	7.7	B3/5000		
BH (60°-80°)	2502.2	6.2	B4/5000		G4/5000
BVH (80°-90°)	351.0	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6
2.5°	6181.2	6145.1	6151.2	6141.3	6111.1	6059.1	6003.1	5900.8	5794.7	5738.7	5694.6
5°	6697.9	6687.8	6673.8	6641.8	6565.7	6457.6	6323.3	6143.1	5948.9	5846.9	5748.8
7.5°	7084.3	7078.3	7060.3	7040.2	6966.1	6836.0	6633.8	6377.4	6095.1	5955.0	5802.8
10°	7116.4	7126.3	7140.4	7194.4	7204.4	7134.3	6928.1	6617.8	6247.4	6067.2	5872.8
12.5°	6843.9	6866.0	6920.2	7058.3	7204.4	7290.6	7184.5	6870.1	6425.4	6207.3	5961.0
15°	6483.5	6495.6	6561.7	6751.9	7014.1	7280.6	7380.7	7148.4	6655.8	6387.5	6093.2
17.5°	6329.4	6335.3	6381.5	6507.6	6751.9	7132.4	7490.7	7450.7	6938.1	6611.7	6255.3
20°	6251.3	6265.3	6331.4	6455.5	6609.6	6942.1	7506.7	7777.0	7274.6	6892.1	6459.5
22.5°	6473.5	6467.5	6491.6	6553.7	6683.7	6884.0	7494.7	8113.5	7703.0	7252.5	6725.9
25°	6992.1	7014.1	6972.1	6902.0	6944.1	7084.3	7558.9	8477.9	8239.7	7715.1	7074.2
27.5°	7731.1	7709.1	7646.9	7482.7	7396.6	7456.7	7771.1	8870.4	8906.4	8323.8	7534.9
30°	8468.0	8449.8	8389.8	8189.6	8013.4	7963.4	8183.6	9321.0	9701.3	9054.6	8099.5
32.5°	9232.8	9212.7	9156.8	8956.6	8744.2	8628.1	8770.2	9841.6	10638.4	9927.6	8764.3
35°	10175.9	10137.8	10019.8	9741.4	9533.2	9443.1	9509.1	10496.2	11719.6	10960.8	9571.3
37.5°	11062.9	11120.9	11000.9	10616.3	10346.0	10314.1	10388.1	11295.2	12885.1	12116.2	10498.3
40°	11953.9	11963.9	11855.9	11541.6	11263.2	11211.0	11397.3	12264.3	14260.7	13497.8	11625.5
42.5°	12875.0	12895.1	12712.9	12422.5	12218.2	12228.3	12440.5	13399.7	15838.6	15125.8	12923.0
45°	13966.3	13996.3	13796.1	13415.6	13229.5	13603.9	13515.8	14673.2	17568.5	16975.8	14412.9
47.5°	15107.7	15153.7	15001.5	14645.1	14412.9	14927.5	14591.1	16084.8	19430.7	18960.2	16048.8
50°	15730.4	15796.4	15944.6	15918.7	15868.6	15782.4	15790.4	17598.5	21350.9	21026.5	17730.7
52.5°	15396.1	15394.0	15934.7	16591.3	17292.3	17344.3	17252.2	19194.4	23145.1	23046.9	19314.5
55°	13866.1	13970.4	14789.2	16060.7	17975.1	19170.4	19442.7	21022.6	24907.1	25021.3	20922.5
57.5°	11319.3	11405.3	12510.7	14282.7	17054.0	20255.7	22558.3	23679.7	26877.4	27410.1	23062.9
60°	7676.9	7781.1	8952.5	11081.0	14575.0	19651.0	25523.8	28421.2	29236.1	30447.6	26066.5
62.5°	4511.3	4605.4	5560.5	6990.3	10262.0	16841.8	26825.4	35167.0	32982.6	35030.9	30647.8
65°	3105.6	3169.7	3634.3	4351.1	5897.0	11343.3	25211.6	39824.6	38747.3	40709.6	35960.1
67.5°	2498.9	2490.9	2859.3	3348.0	3796.4	5848.9	19064.3	39298.0	43817.3	44636.2	38717.3
70°	2058.3	2050.4	2300.6	2705.2	3033.5	3293.8	10384.1	33162.8	42784.0	43116.4	36178.2
72.5°	1722.1	1730.0	1890.3	2190.5	2488.9	2480.8	4563.3	23329.3	33657.3	35956.1	28839.7
75°	1453.6	1457.7	1563.8	1776.0	2020.4	1998.3	2474.9	12638.8	19564.8	21164.7	15986.6
77.5°	1237.4	1241.5	1309.5	1427.6	1601.9	1593.9	1806.1	5460.3	8161.6	8061.4	5468.4
80°	1103.3	1103.3	1135.3	1157.3	1253.5	1217.5	1339.6	2623.1	3450.0	3185.7	2182.5
82.5°	865.0	869.0	1065.2	1057.2	987.1	941.2	941.2	1545.9	1828.1	1690.0	1277.5
85°	486.5	484.5	686.8	829.0	869.0	662.8	656.8	865.0	995.1	877.0	618.8
87.5°	208.2	212.3	318.4	368.5	492.6	412.5	406.5	446.5	506.6	438.6	286.3
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°	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6
2.5°	5652.7	5600.6	5486.4	5344.2	5216.1	5131.9	5055.9	4945.8	4951.7	4875.7	4819.6
5°	5648.6	5540.4	5276.1	4961.8	4659.5	4441.2	4277.0	4128.8	4092.8	4022.7	3980.7
7.5°	5652.7	5476.3	5031.9	4529.3	4154.9	3878.5	3738.3	3660.2	3642.3	3618.3	3620.2
10°	5666.6	5418.3	4763.5	4124.7	3732.4	3550.1	3516.1	3540.1	3568.2	3576.2	3578.2
12.5°	5698.7	5366.3	4469.2	3764.3	3468.0	3412.0	3470.1	3552.2	3606.2	3632.2	3630.2
15°	5770.7	5326.2	4186.9	3482.1	3321.9	3351.9	3460.0	3576.2	3654.2	3690.2	3692.4
17.5°	5848.9	5268.2	3896.6	3265.8	3213.7	3289.9	3424.0	3560.2	3656.3	3696.3	3704.3
20°	5950.9	5196.1	3592.2	3103.6	3111.5	3197.7	3323.9	3460.0	3566.2	3600.1	3616.2
22.5°	6085.1	5118.0	3325.9	2971.5	2995.5	3061.6	3159.7	3277.8	3369.9	3385.9	3399.9
25°	6265.3	5033.9	3113.6	2851.3	2861.3	2899.4	2965.5	3035.6	3099.6	3081.5	3095.6
27.5°	6507.6	4961.8	2955.5	2741.2	2723.2	2731.1	2765.3	2787.3	2821.2	2771.2	2777.2
30°	6791.9	4883.7	2833.3	2645.1	2595.1	2581.0	2589.1	2601.0	2627.1	2559.0	2549.0
32.5°	7122.3	4789.7	2719.2	2561.0	2490.9	2462.9	2466.8	2498.9	2599.1	2556.9	2534.9
35°	7506.7	4683.5	2599.1	2468.9	2420.8	2380.8	2376.7	2476.8	2775.3	2749.3	2729.2
37.5°	7957.2	4577.4	2479.0	2364.8	2368.8	2324.8	2310.7	2424.9	2809.3	2707.1	2693.2
40°	8529.9	4521.3	2376.7	2254.7	2304.7	2298.8	2270.6	2328.8	2585.1	2398.8	2374.8
42.5°	9238.8	4529.3	2300.6	2136.4	2228.7	2292.7	2248.6	2250.7	2342.7	2202.6	2180.5
45°	10113.8	4623.3	2246.7	2042.3	2142.5	2286.6	2240.6	2208.7	2216.6	2142.5	2130.5
47.5°	11135.0	4817.6	2208.7	1964.4	2060.4	2264.6	2238.7	2196.5	2178.6	2138.4	2128.4
50°	12270.4	5099.9	2180.5	1890.3	1986.3	2228.7	2240.6	2184.6	2164.6	2148.4	2142.5
52.5°	13385.6	5422.3	2138.4	1826.2	1928.2	2184.6	2246.7	2172.6	2150.5	2138.4	2132.4
55°	14629.1	5824.8	2074.5	1772.0	1880.2	2128.4	2246.7	2154.6	2130.5	2132.4	2130.5
57.5°	16309.1	6475.6	1998.3	1726.1	1822.1	2060.4	2208.7	2134.6	2104.5	2106.4	2108.4
60°	18934.1	7622.8	1906.3	1680.0	1750.1	1980.4	2156.6	2090.4	2060.4	2068.3	2070.5
62.5°	22794.6	9306.9	1786.1	1611.9	1673.9	1894.3	2084.4	2034.4	2004.4	2024.4	2024.4
65°	26807.3	10792.6	1637.9	1525.9	1593.9	1800.2	1994.3	1964.4	1934.3	1980.4	1978.2
67.5°	27886.7	10460.3	1489.7	1431.7	1513.7	1696.0	1886.3	1870.2	1854.2	1934.3	1930.3
70°	24773.0	8397.9	1353.6	1335.6	1425.7	1583.8	1770.1	1770.1	1760.0	1820.1	1806.1
72.5°	18874.1	5955.0	1223.4	1233.5	1325.5	1461.7	1643.9	1657.9	1641.9	1671.9	1660.0
75°	10103.9	3408.0	1093.2	1121.4	1201.5	1337.5	1503.8	1517.7	1507.7	1505.7	1511.8
77.5°	3358.0	1665.9	957.1	1001.3	1071.3	1209.4	1357.6	1379.5	1355.6	1351.6	1349.6
80°	1495.8	1047.2	806.9	865.0	927.1	1063.2	1203.4	1221.4	1195.5	1231.4	1185.5
82.5°	961.1	688.8	646.8	710.7	770.8	917.1	1049.2	1053.3	1029.2	1195.5	1019.1
85°	466.5	426.4	486.5	544.6	596.7	720.8	869.0	871.0	810.9	738.9	712.9
87.5°	232.3	248.3	324.4	376.4	402.5	494.5	632.8	620.6	594.7	540.6	498.6
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)