

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: P193896

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193896  
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-T2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25169 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

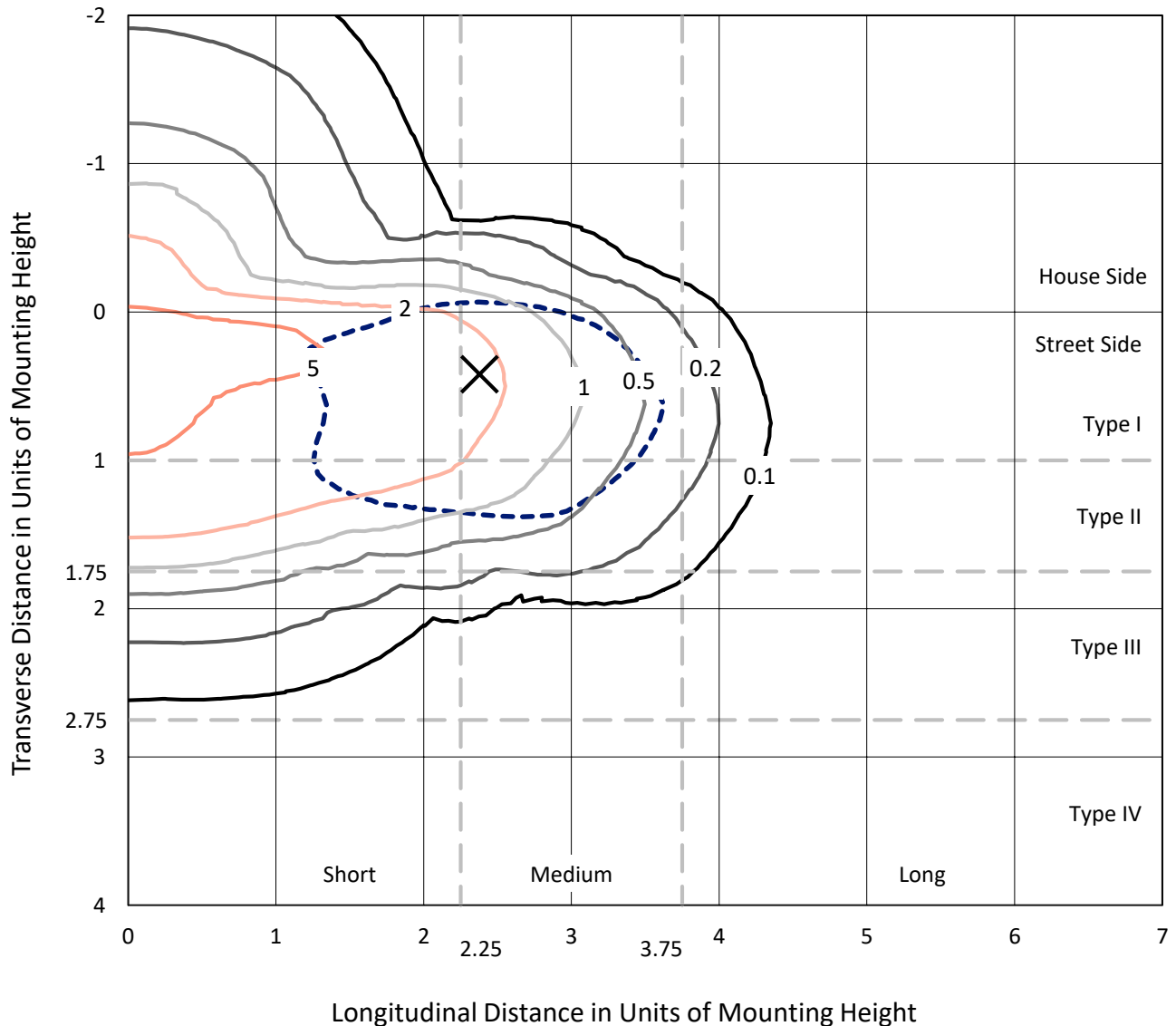
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

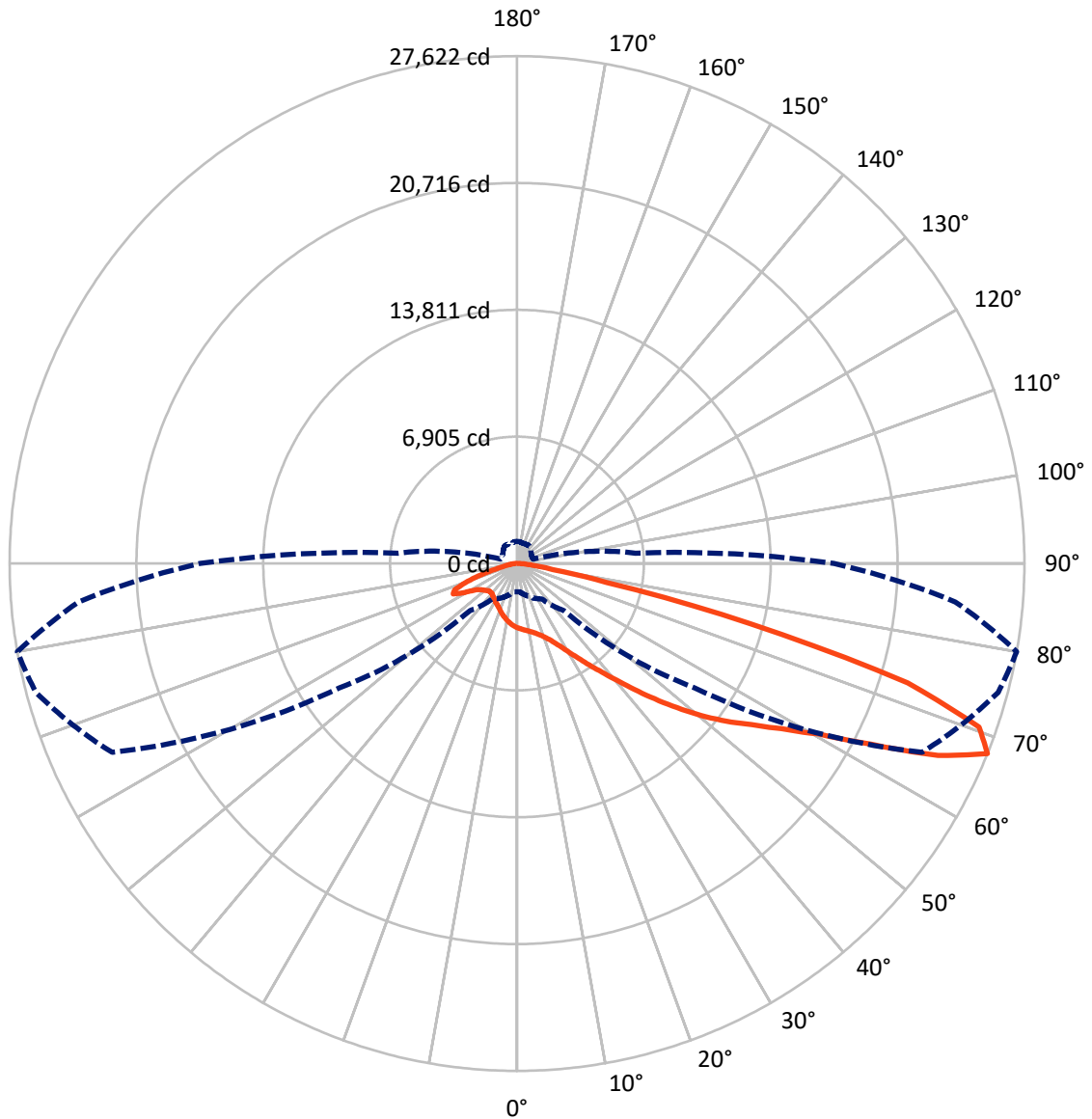
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	4635.2	0.0	4635.2
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	20533.8	0.0	20533.8
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	25169.0	0.0	25169.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.6	1.3
10°-20°	929.2	3.7
20°-30°	1538.0	6.1
30°-40°	2515.8	10.0
40°-50°	4062.0	16.1
50°-60°	5864.3	23.3
60°-70°	6471.6	25.7
70°-80°	2983.0	11.9
80°-90°	482.5	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°	25169.0	100.0
0°-180°	25169.0	100.0



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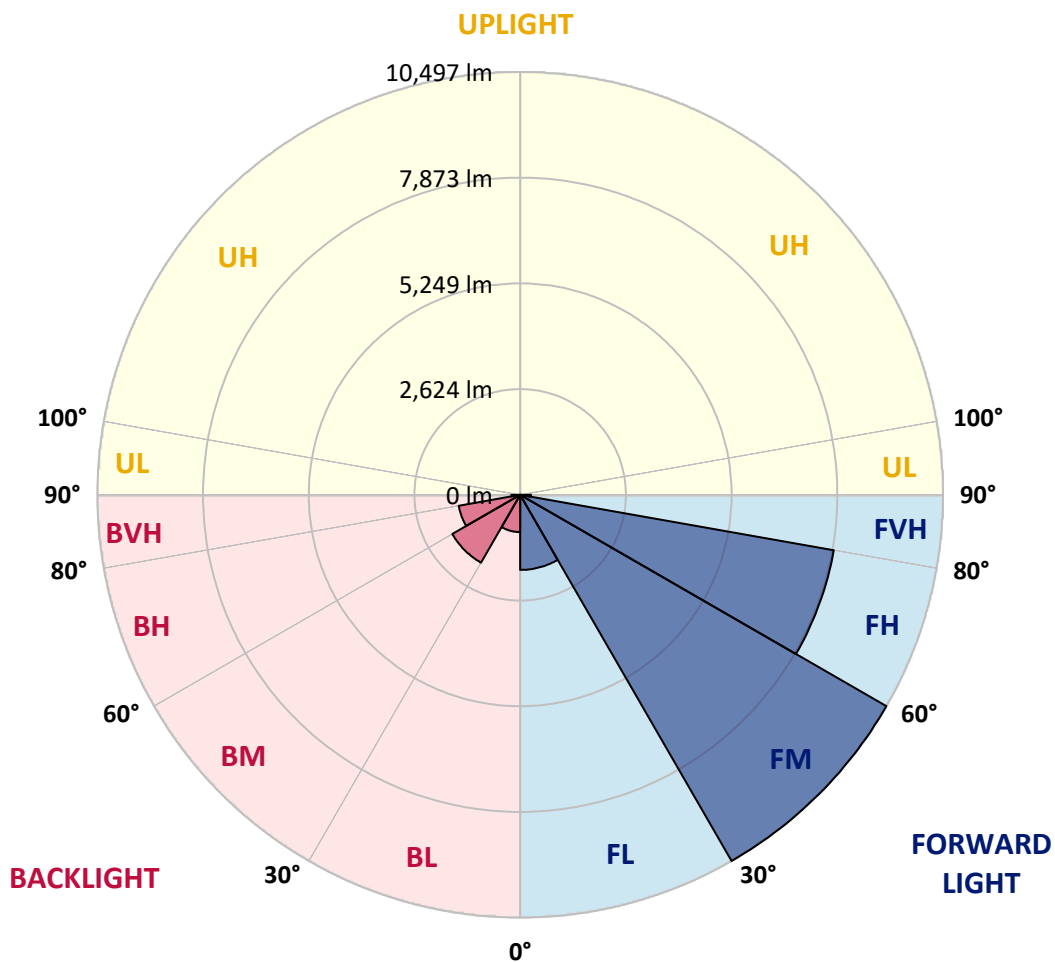
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.0	7.4			
FM (30°-60°)	10497.3	41.7			
FH (60°-80°)	7906.2	31.4			G4/12000
FVH (80°-90°)	265.3	1.1			G3/500
BL (0°-30°)	924.8	3.7	B2/1000		
BM (30°-60°)	1944.7	7.7	B2/2500		
BH (60°-80°)	1548.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	217.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7
2.5°	3825.1	3802.8	3806.5	3800.3	3781.7	3749.5	3714.8	3651.6	3585.9	3551.2	3524.0
5°	4144.7	4138.6	4129.9	4110.1	4063.0	3996.1	3913.0	3801.5	3681.3	3618.1	3557.4
7.5°	4383.9	4380.2	4369.0	4356.6	4310.8	4230.2	4105.1	3946.5	3771.8	3685.0	3590.9
10°	4403.7	4409.9	4418.6	4452.0	4458.2	4414.9	4287.2	4095.2	3866.0	3754.4	3634.2
12.5°	4235.2	4248.8	4282.3	4367.8	4458.2	4511.5	4445.8	4251.3	3976.2	3841.2	3688.8
15°	4012.2	4019.6	4060.5	4178.2	4340.5	4505.3	4567.3	4423.5	4118.7	3952.7	3770.5
17.5°	3916.8	3920.5	3949.0	4027.0	4178.2	4413.6	4635.4	4610.6	4293.4	4091.5	3870.9
20°	3868.4	3877.1	3918.0	3994.8	4090.2	4295.9	4645.3	4812.6	4501.6	4264.9	3997.3
22.5°	4006.0	4002.3	4017.1	4055.5	4136.1	4260.0	4637.9	5020.8	4766.8	4488.0	4162.1
25°	4326.9	4340.5	4314.5	4271.1	4297.2	4383.9	4677.6	5246.3	5098.8	4774.2	4377.7
27.5°	4784.1	4770.5	4732.1	4630.5	4577.2	4614.4	4808.9	5489.2	5511.5	5150.9	4662.7
30°	5240.1	5229.0	5191.8	5067.9	4958.8	4927.9	5064.2	5768.0	6003.4	5603.2	5012.1
32.5°	5713.4	5701.0	5666.3	5542.4	5411.1	5339.2	5427.2	6090.1	6583.3	6143.4	5423.5
35°	6297.0	6273.5	6200.4	6028.2	5899.3	5843.5	5884.4	6495.3	7252.4	6782.8	5922.8
37.5°	6846.0	6881.9	6807.5	6569.6	6402.4	6382.5	6428.4	6989.7	7973.5	7497.7	6496.5
40°	7397.4	7403.6	7336.6	7142.1	6969.9	6937.7	7052.9	7589.4	8824.8	8352.7	7194.1
42.5°	7967.3	7979.7	7867.0	7687.3	7560.9	7567.1	7698.5	8292.0	9801.2	9360.1	7997.1
45°	8642.6	8661.2	8537.3	8301.9	8186.7	8418.4	8363.8	9080.0	10871.8	10505.0	8919.0
47.5°	9348.9	9377.4	9283.2	9062.7	8919.0	9237.4	9029.2	9953.6	12024.1	11732.9	9931.3
50°	9734.3	9775.2	9866.9	9850.7	9819.8	9766.5	9771.4	10890.3	13212.4	13011.7	10972.1
52.5°	9527.3	9526.1	9860.7	10267.1	10700.8	10733.0	10676.0	11877.9	14322.6	14261.9	11952.2
55°	8580.7	8645.1	9151.9	9938.7	11123.3	11863.0	12031.5	13009.2	15413.0	15483.6	12947.2
57.5°	7004.6	7057.8	7741.8	8838.4	10553.3	12534.6	13959.6	14653.5	16632.3	16961.9	14271.8
60°	4750.7	4815.1	5540.0	6857.1	9019.3	12160.4	15794.7	17587.6	18091.9	18841.6	16130.4
62.5°	2791.7	2849.9	3440.9	4325.7	6350.3	10422.0	16600.1	21762.1	20410.3	21677.8	18965.5
65°	1921.8	1961.5	2248.9	2692.5	3649.1	7019.4	15601.4	24644.2	23977.6	25191.9	22252.8
67.5°	1546.4	1541.4	1769.4	2071.8	2349.3	3619.4	11797.4	24318.3	27115.0	27621.7	23959.0
70°	1273.8	1268.8	1423.7	1674.0	1877.2	2038.3	6425.9	20521.8	26475.6	26681.3	22387.8
72.5°	1065.6	1070.6	1169.7	1355.6	1540.2	1535.2	2823.9	14436.6	20827.8	22250.3	17846.6
75°	899.6	902.1	967.7	1099.1	1250.2	1236.6	1531.5	7821.1	12107.1	13097.2	9892.9
77.5°	765.8	768.2	810.4	883.5	991.3	986.3	1117.7	3379.0	5050.5	4988.6	3383.9
80°	682.7	682.7	702.6	716.2	775.7	753.4	828.9	1623.2	2134.9	1971.4	1350.6
82.5°	535.3	537.8	659.2	654.2	610.9	582.4	582.4	956.6	1131.3	1045.8	790.5
85°	301.1	299.9	425.0	513.0	537.8	410.1	406.4	535.3	615.8	542.7	382.9
87.5°	128.9	131.3	197.0	228.0	304.8	255.3	251.5	276.3	313.5	271.4	177.2
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°	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7
2.5°	3497.9	3465.7	3395.1	3307.1	3227.8	3175.8	3128.7	3060.5	3064.3	3017.2	2982.5
5°	3495.5	3428.6	3265.0	3070.5	2883.4	2748.3	2646.7	2555.0	2532.7	2489.3	2463.3
7.5°	3497.9	3388.9	3113.8	2802.8	2571.1	2400.1	2313.4	2265.1	2253.9	2239.0	2240.3
10°	3506.6	3353.0	2947.8	2552.5	2309.7	2196.9	2175.8	2190.7	2208.1	2213.0	2214.3
12.5°	3526.4	3320.8	2765.6	2329.5	2146.1	2111.4	2147.3	2198.1	2231.6	2247.7	2246.5
15°	3571.1	3296.0	2590.9	2154.8	2055.6	2074.2	2141.1	2213.0	2261.3	2283.6	2284.9
17.5°	3619.4	3260.0	2411.3	2021.0	1988.7	2035.8	2118.8	2203.1	2262.6	2287.4	2292.3
20°	3682.6	3215.4	2222.9	1920.6	1925.5	1978.8	2056.9	2141.1	2206.8	2227.9	2237.8
22.5°	3765.6	3167.1	2058.1	1838.8	1853.7	1894.6	1955.3	2028.4	2085.4	2095.3	2104.0
25°	3877.1	3115.1	1926.8	1764.5	1770.7	1794.2	1835.1	1878.5	1918.1	1907.0	1915.6
27.5°	4027.0	3070.5	1828.9	1696.3	1685.2	1690.1	1711.2	1724.8	1745.9	1714.9	1718.6
30°	4203.0	3022.1	1753.3	1636.8	1605.9	1597.2	1602.1	1609.6	1625.7	1583.6	1577.4
32.5°	4407.4	2963.9	1682.7	1584.8	1541.4	1524.1	1526.6	1546.4	1608.3	1582.3	1568.7
35°	4645.3	2898.2	1608.3	1527.8	1498.1	1473.3	1470.8	1532.8	1717.4	1701.3	1688.9
37.5°	4924.1	2832.6	1534.0	1463.4	1465.8	1438.6	1429.9	1500.5	1738.4	1675.2	1666.6
40°	5278.5	2797.9	1470.8	1395.2	1426.2	1422.5	1405.1	1441.1	1599.7	1484.4	1469.6
42.5°	5717.2	2802.8	1423.7	1322.1	1379.1	1418.8	1391.5	1392.7	1449.7	1363.0	1349.4
45°	6258.6	2861.1	1390.3	1263.9	1325.8	1415.0	1386.5	1366.7	1371.7	1325.8	1318.4
47.5°	6890.6	2981.2	1366.7	1215.5	1275.0	1401.4	1385.3	1359.3	1348.1	1323.3	1317.2
50°	7593.1	3156.0	1349.4	1169.7	1229.2	1379.1	1386.5	1351.8	1339.5	1329.5	1325.8
52.5°	8283.3	3355.5	1323.3	1130.0	1193.2	1351.8	1390.3	1344.4	1330.8	1323.3	1319.6
55°	9052.8	3604.5	1283.7	1096.6	1163.5	1317.2	1390.3	1333.3	1318.4	1319.6	1318.4
57.5°	10092.4	4007.2	1236.6	1068.1	1127.6	1275.0	1366.7	1320.9	1302.3	1303.5	1304.8
60°	11716.8	4717.2	1179.6	1039.6	1083.0	1225.5	1334.5	1293.6	1275.0	1280.0	1281.2
62.5°	14105.8	5759.3	1105.3	997.5	1035.9	1172.2	1289.9	1258.9	1240.3	1252.7	1252.7
65°	16588.9	6678.7	1013.6	944.2	986.3	1113.9	1234.1	1215.5	1197.0	1225.5	1224.2
67.5°	17256.8	6473.0	921.9	885.9	936.8	1049.5	1167.2	1157.3	1147.4	1197.0	1194.5
70°	15330.0	5196.7	837.6	826.5	882.2	980.1	1095.4	1095.4	1089.2	1126.3	1117.7
72.5°	11679.6	3685.0	757.1	763.3	820.3	904.5	1017.3	1026.0	1016.1	1034.6	1027.2
75°	6252.4	2108.9	676.5	693.9	743.5	827.7	930.6	939.2	933.0	931.8	935.5
77.5°	2078.0	1030.9	592.3	619.5	662.9	748.4	840.1	853.7	838.9	836.4	835.1
80°	925.6	648.0	499.4	535.3	573.7	658.0	744.7	755.8	739.7	762.0	733.5
82.5°	594.8	426.2	400.2	439.9	477.0	567.5	649.3	651.8	636.9	739.7	630.7
85°	288.7	263.9	301.1	337.0	369.2	446.1	537.8	539.0	501.8	457.2	441.1
87.5°	143.7	153.6	200.7	232.9	249.1	306.1	391.6	384.1	368.0	334.6	308.5
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)