

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: P193905

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193905  
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-07-LED-E1-T2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27240 lumens  
Efficiency: N/A  
Efficacy: 92.3 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

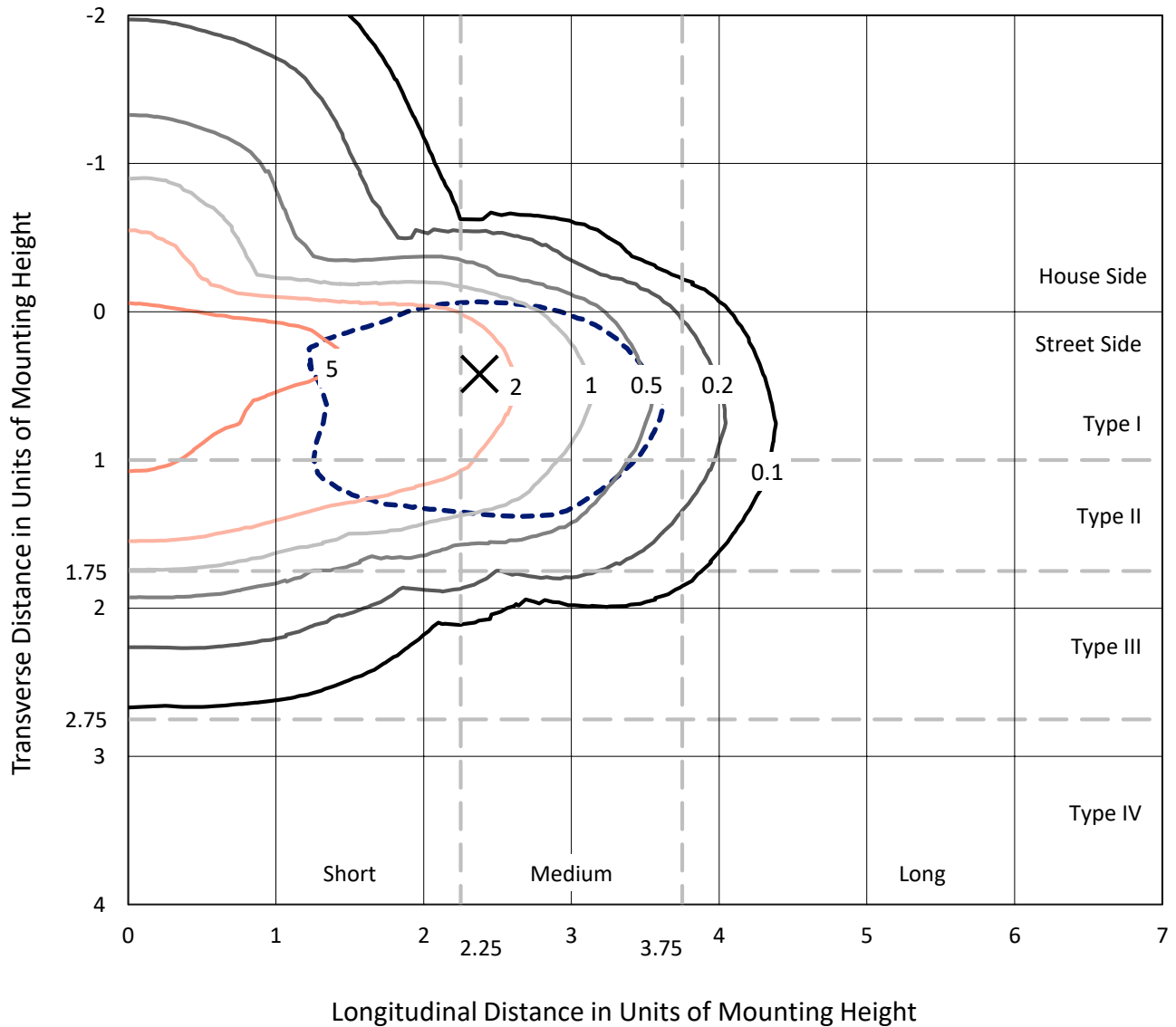
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

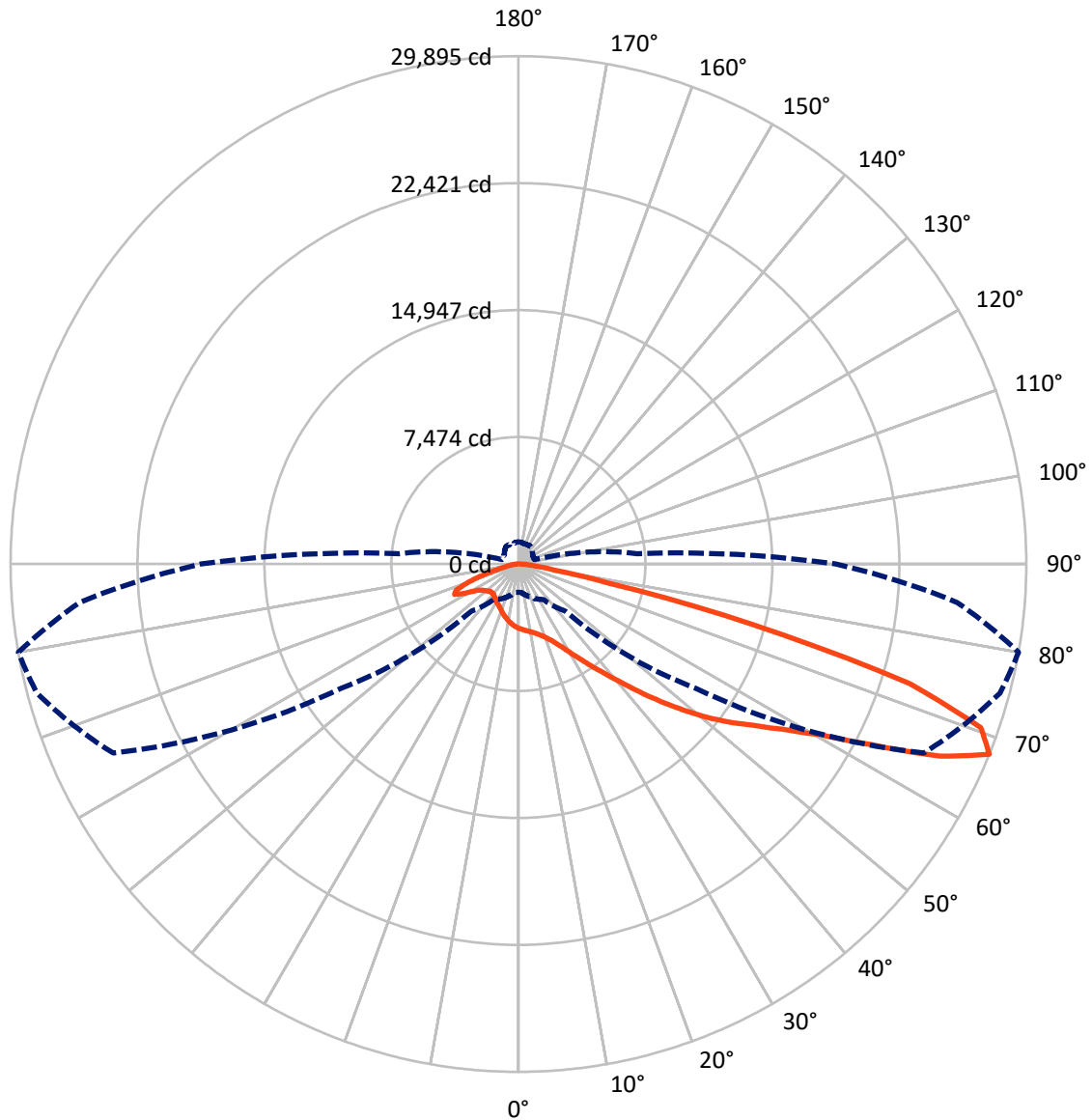
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	5016.6	0.0	5016.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	22223.4	0.0	22223.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	27240.0	0.0	27240.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.1	1.3
10°-20°	1005.6	3.7
20°-30°	1664.6	6.1
30°-40°	2722.8	10.0
40°-50°	4396.2	16.1
50°-60°	6346.9	23.3
60°-70°	7004.2	25.7
70°-80°	3228.5	11.9
80°-90°	522.2	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°	27240.0	100.0
0°-180°	27240.0	100.0



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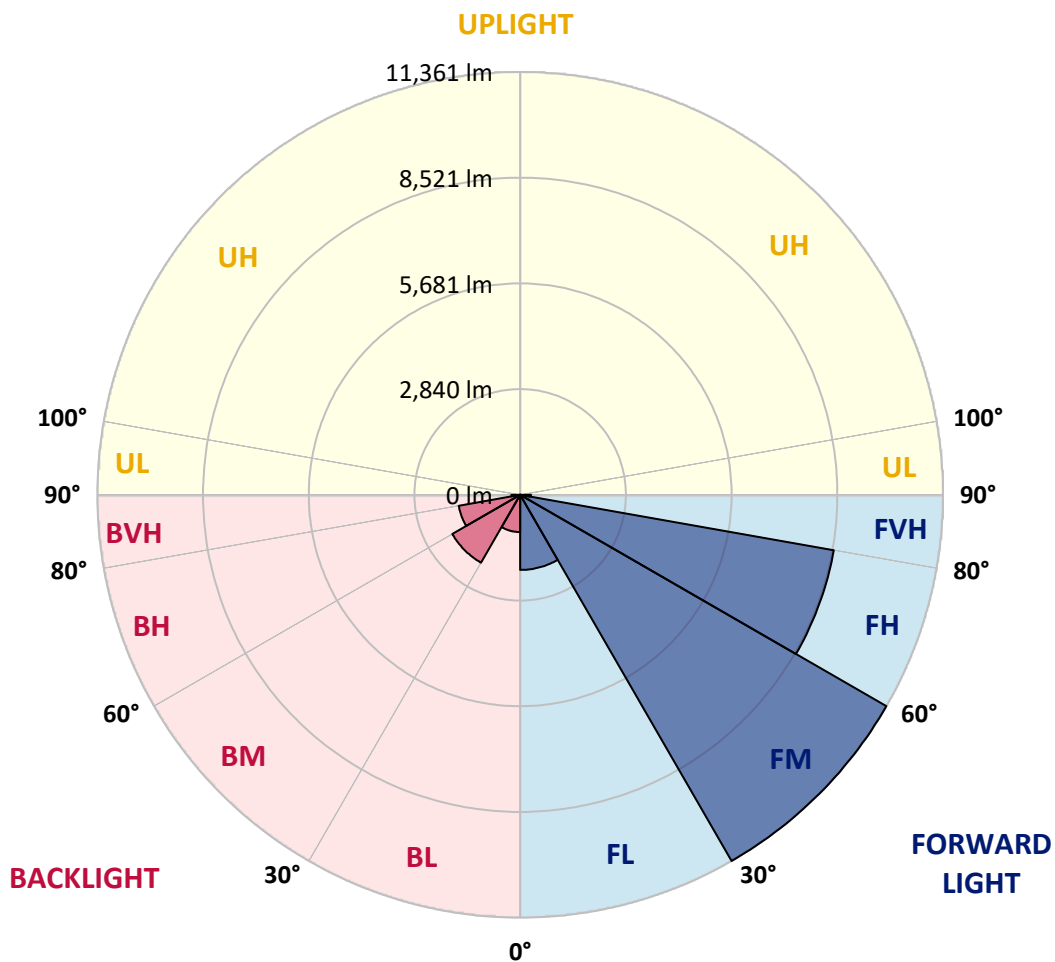
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.4	7.4			
FM (30°-60°)	11361.1	41.7			
FH (60°-80°)	8556.8	31.4			G4/12000
FVH (80°-90°)	287.1	1.1			G3/500
BL (0°-30°)	1000.9	3.7	B3/2500		
BM (30°-60°)	2104.8	7.7	B2/2500		
BH (60°-80°)	1675.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	235.1	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4
2.5°	4139.8	4115.7	4119.7	4113.0	4092.9	4058.0	4020.5	3952.1	3881.0	3843.4	3813.9
5°	4485.8	4479.1	4469.7	4448.2	4397.3	4324.9	4235.0	4114.3	3984.2	3915.9	3850.1
7.5°	4744.6	4740.6	4728.5	4715.1	4665.5	4578.3	4442.9	4271.2	4082.1	3988.3	3886.3
10°	4766.1	4772.8	4782.2	4818.4	4825.1	4778.1	4640.0	4432.2	4184.1	4063.4	3933.3
12.5°	4583.7	4598.4	4634.7	4727.2	4825.1	4882.7	4811.7	4601.1	4303.4	4157.2	3992.3
15°	4342.3	4350.3	4394.6	4522.0	4697.7	4876.0	4943.1	4787.5	4457.6	4277.9	4080.8
17.5°	4239.0	4243.1	4273.9	4358.4	4522.0	4776.8	5016.8	4990.0	4646.7	4428.1	4189.4
20°	4186.7	4196.1	4240.4	4323.5	4426.8	4649.4	5027.6	5208.6	4872.0	4615.9	4326.2
22.5°	4335.6	4331.6	4347.7	4389.2	4476.4	4610.5	5019.5	5433.9	5159.0	4857.3	4504.6
25°	4682.9	4697.7	4669.5	4622.6	4650.7	4744.6	5062.4	5678.0	5518.4	5167.0	4737.9
27.5°	5177.8	5163.0	5121.4	5011.5	4953.8	4994.1	5204.6	5940.8	5965.0	5574.7	5046.4
30°	5671.3	5659.2	5619.0	5484.9	5366.9	5333.3	5480.8	6242.6	6497.4	6064.2	5424.5
32.5°	6183.6	6170.1	6132.6	5998.5	5856.3	5778.6	5873.8	6591.2	7125.0	6648.9	5869.8
35°	6815.2	6789.7	6710.6	6524.2	6384.7	6324.4	6368.6	7029.8	7849.1	7340.9	6410.2
37.5°	7409.3	7448.2	7367.7	7110.2	6929.2	6907.7	6957.3	7564.8	8629.6	8114.7	7031.1
40°	8006.0	8012.7	7940.3	7729.8	7543.4	7508.5	7633.2	8213.9	9550.9	9040.0	7786.1
42.5°	8622.9	8636.3	8514.3	8319.8	8183.1	8189.8	8331.9	8974.3	10607.7	10130.3	8655.1
45°	9353.8	9373.9	9239.8	8985.0	8860.3	9111.1	9052.1	9827.2	11766.3	11369.4	9652.8
47.5°	10118.2	10149.0	10047.1	9808.4	9652.8	9997.5	9772.2	10772.6	13013.5	12698.4	10748.5
50°	10535.2	10579.5	10678.7	10661.3	10627.8	10570.1	10575.5	11786.4	14299.6	14082.3	11875.0
52.5°	10311.3	10310.0	10672.0	11111.9	11581.3	11616.1	11554.4	12855.3	15501.1	15435.4	12935.7
55°	9286.7	9356.5	9905.0	10756.5	12038.6	12839.2	13021.5	14079.6	16681.3	16757.7	14012.6
57.5°	7580.9	7638.6	8378.8	9565.7	11421.7	13566.0	15108.2	15859.2	18000.8	18357.6	15446.2
60°	5141.6	5211.3	5995.8	7421.3	9761.5	13161.0	17094.3	19034.8	19580.6	20391.9	17457.7
62.5°	3021.4	3084.4	3724.1	4681.6	6872.9	11279.5	17966.0	23552.8	22089.7	23461.6	20526.0
65°	2080.0	2122.9	2434.0	2914.1	3949.4	7597.0	16885.1	26672.0	25950.6	27264.8	24083.8
67.5°	1673.6	1668.3	1915.0	2242.2	2542.6	3917.2	12768.1	26319.3	29346.1	29894.6	25930.4
70°	1378.6	1373.2	1540.9	1811.8	2031.7	2206.0	6954.7	22210.4	28654.1	28876.7	24230.0
72.5°	1153.3	1158.7	1265.9	1467.1	1666.9	1661.6	3056.2	15624.5	22541.6	24081.1	19315.1
75°	973.6	976.3	1047.4	1189.5	1353.1	1338.4	1657.5	8464.7	13103.3	14174.8	10706.9
77.5°	828.8	831.4	877.0	956.2	1072.8	1067.5	1209.6	3657.0	5466.1	5399.0	3662.4
80°	738.9	738.9	760.4	775.1	839.5	815.4	897.2	1756.8	2310.6	2133.6	1461.7
82.5°	579.3	582.0	713.4	708.1	661.1	630.3	630.3	1035.3	1224.4	1131.8	855.6
85°	325.9	324.5	460.0	555.2	582.0	443.9	439.9	579.3	666.5	587.4	414.4
87.5°	139.5	142.2	213.2	246.8	329.9	276.3	272.2	299.1	339.3	293.7	191.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4	3784.4
2.5°	3785.8	3750.9	3674.5	3579.2	3493.4	3437.1	3386.1	3312.4	3316.4	3265.4	3227.9
5°	3783.1	3710.7	3533.7	3323.1	3120.6	2974.4	2864.5	2765.2	2741.1	2694.2	2666.0
7.5°	3785.8	3667.8	3370.0	3033.4	2782.7	2597.6	2503.7	2451.4	2439.4	2423.3	2424.6
10°	3795.2	3628.9	3190.3	2762.6	2499.7	2377.7	2354.9	2371.0	2389.7	2395.1	2396.4
12.5°	3816.6	3594.0	2993.2	2521.2	2322.7	2285.1	2324.0	2379.0	2415.2	2432.7	2431.3
15°	3864.9	3567.2	2804.1	2332.1	2224.8	2244.9	2317.3	2395.1	2447.4	2471.5	2472.9
17.5°	3917.2	3528.3	2609.7	2187.2	2152.4	2203.3	2293.2	2384.4	2448.7	2475.6	2480.9
20°	3985.6	3480.0	2405.8	2078.6	2084.0	2141.6	2226.1	2317.3	2388.4	2411.2	2421.9
22.5°	4075.4	3427.7	2227.5	1990.1	2006.2	2050.5	2116.2	2195.3	2257.0	2267.7	2277.1
25°	4196.1	3371.4	2085.3	1909.6	1916.4	1941.8	1986.1	2033.0	2075.9	2063.9	2073.3
27.5°	4358.4	3323.1	1979.4	1835.9	1823.8	1829.2	1852.0	1866.7	1889.5	1856.0	1860.0
30°	4548.8	3270.8	1897.6	1771.5	1738.0	1728.6	1734.0	1742.0	1759.5	1713.9	1707.1
32.5°	4770.1	3207.8	1821.1	1715.2	1668.3	1649.5	1652.2	1673.6	1740.7	1712.5	1697.8
35°	5027.6	3136.7	1740.7	1653.5	1621.3	1594.5	1591.8	1658.9	1858.7	1841.3	1827.8
37.5°	5329.3	3065.6	1660.2	1583.8	1586.5	1557.0	1547.6	1624.0	1881.5	1813.1	1803.7
40°	5712.9	3028.1	1591.8	1510.0	1543.5	1539.5	1520.7	1559.6	1731.3	1606.6	1590.5
42.5°	6187.6	3033.4	1540.9	1430.9	1492.6	1535.5	1506.0	1507.3	1569.0	1475.1	1460.4
45°	6773.6	3096.5	1504.7	1367.9	1434.9	1531.5	1500.6	1479.2	1484.5	1434.9	1426.9
47.5°	7457.5	3226.6	1479.2	1315.6	1379.9	1516.7	1499.3	1471.1	1459.1	1432.2	1425.5
50°	8217.9	3415.6	1460.4	1265.9	1330.3	1492.6	1500.6	1463.1	1449.7	1438.9	1434.9
52.5°	8964.9	3631.5	1432.2	1223.0	1291.4	1463.1	1504.7	1455.0	1440.3	1432.2	1428.2
55°	9797.7	3901.1	1389.3	1186.8	1259.2	1425.5	1504.7	1443.0	1426.9	1428.2	1426.9
57.5°	10922.8	4336.9	1338.4	1156.0	1220.4	1379.9	1479.2	1429.6	1409.4	1410.8	1412.1
60°	12680.9	5105.4	1276.7	1125.1	1172.1	1326.3	1444.3	1400.1	1379.9	1385.3	1386.6
62.5°	15266.5	6233.2	1196.2	1079.5	1121.1	1268.6	1396.0	1362.5	1342.4	1355.8	1355.8
65°	17953.9	7228.2	1097.0	1021.9	1067.5	1205.6	1335.7	1315.6	1295.4	1326.3	1325.0
67.5°	18676.7	7005.6	997.7	958.8	1013.8	1135.9	1263.3	1252.5	1241.8	1295.4	1292.8
70°	16591.4	5624.3	906.5	894.5	954.8	1060.8	1185.5	1185.5	1178.8	1219.0	1209.6
72.5°	12640.7	3988.3	819.4	826.1	887.8	979.0	1101.0	1110.4	1099.7	1119.8	1111.7
75°	6766.9	2282.5	732.2	751.0	804.6	895.8	1007.1	1016.5	1009.8	1008.5	1012.5
77.5°	2248.9	1115.7	641.0	670.5	717.5	810.0	909.2	924.0	907.9	905.2	903.9
80°	1001.8	701.4	540.4	579.3	620.9	712.1	806.0	818.0	800.6	824.7	793.9
82.5°	643.7	461.3	433.2	476.1	516.3	614.2	702.7	705.4	689.3	800.6	682.6
85°	312.5	285.6	325.9	364.8	399.6	482.8	582.0	583.4	543.1	494.8	477.4
87.5°	155.6	166.3	217.2	252.1	269.5	331.2	423.8	415.7	398.3	362.1	333.9
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)