

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: P269578

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269578  
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-T2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26797.4 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

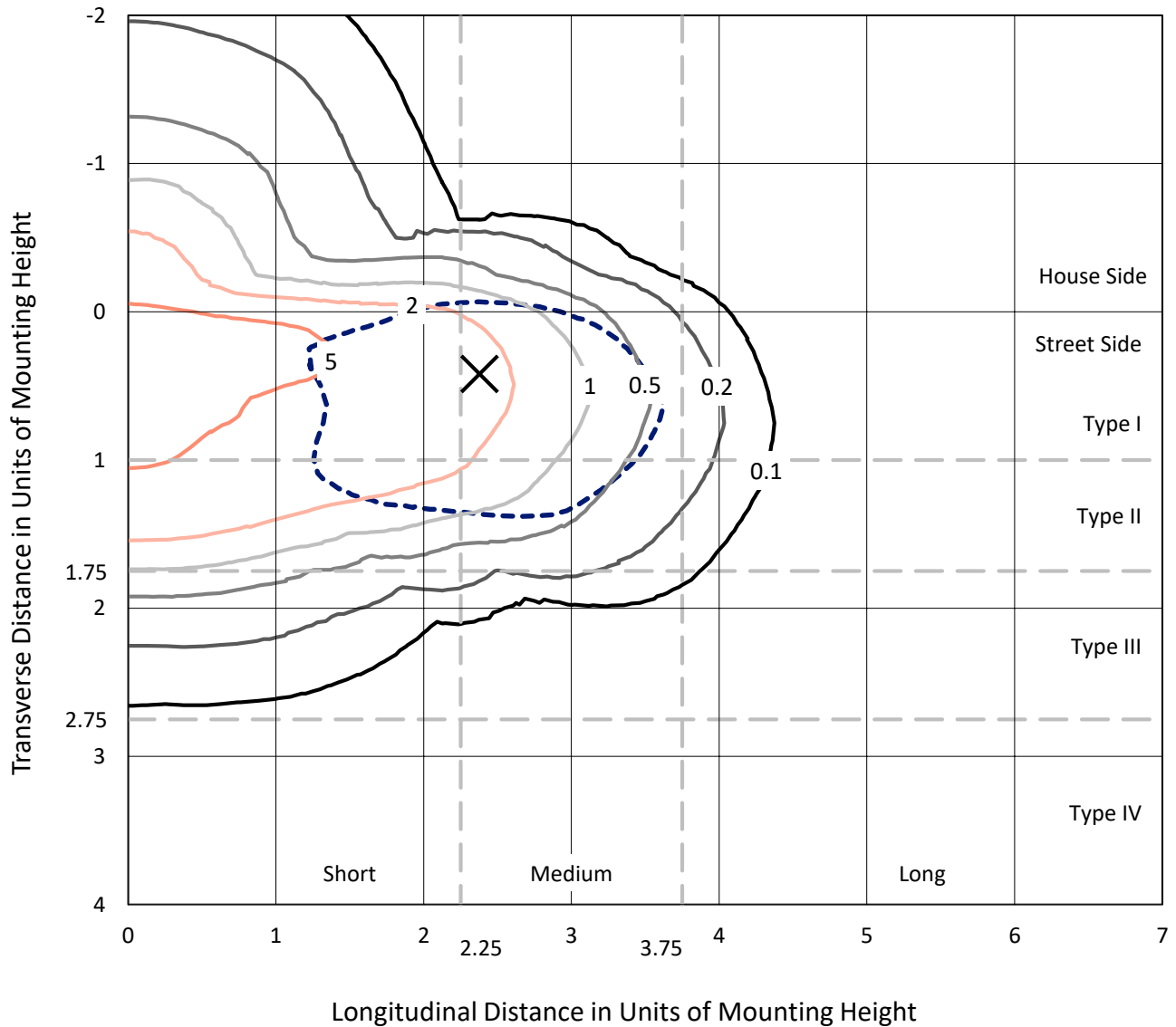
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

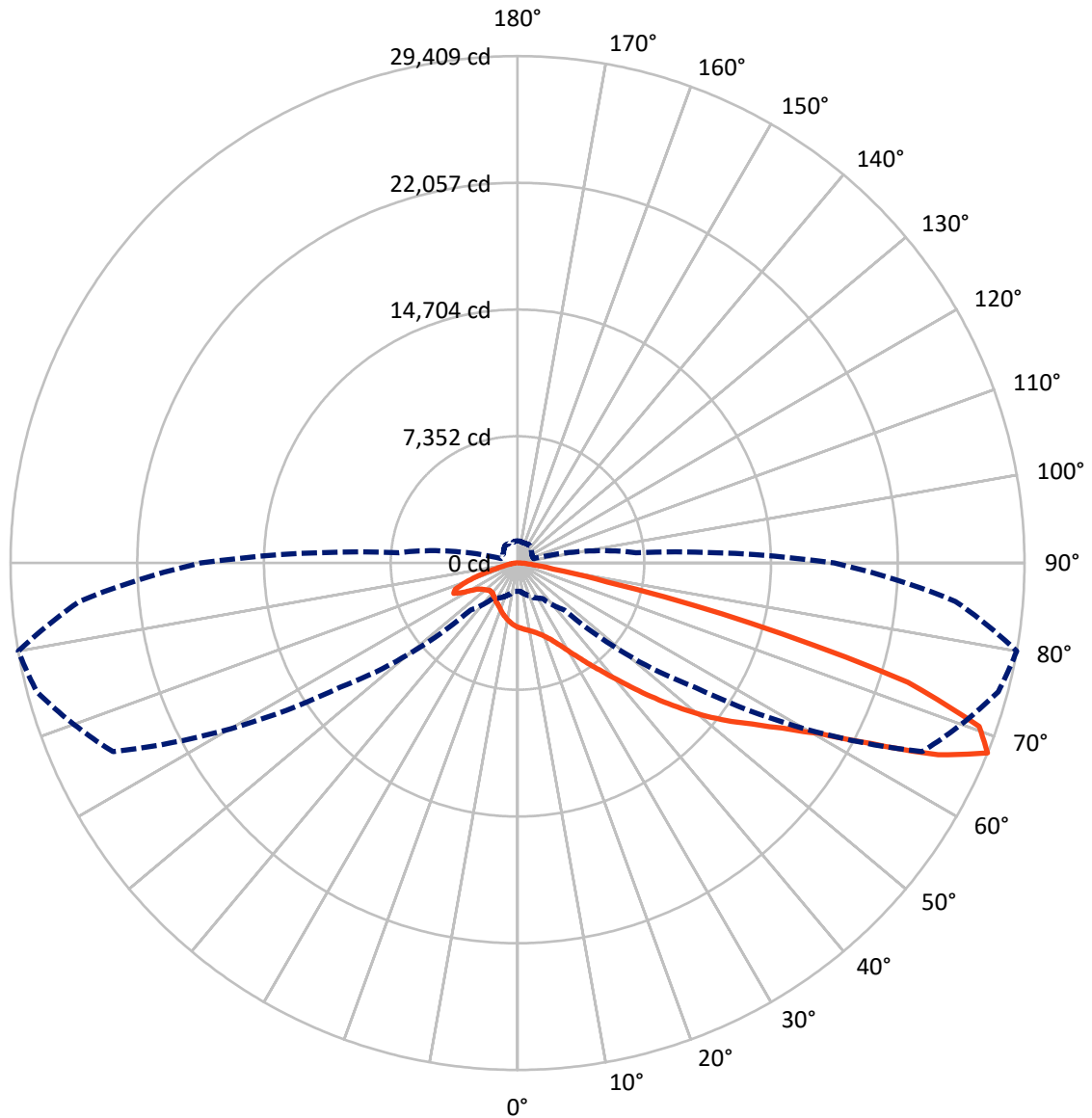


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - Full Cutoff

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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	4935.0	0.0	4935.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	21862.3	0.0	21862.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	26797.4	0.0	26797.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.4	1.3
10°-20°	989.3	3.7
20°-30°	1637.5	6.1
30°-40°	2678.5	10.0
40°-50°	4324.8	16.1
50°-60°	6243.7	23.3
60°-70°	6890.3	25.7
70°-80°	3176.0	11.9
80°-90°	513.7	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°	26797.4	100.0
0°-180°	26797.4	100.0



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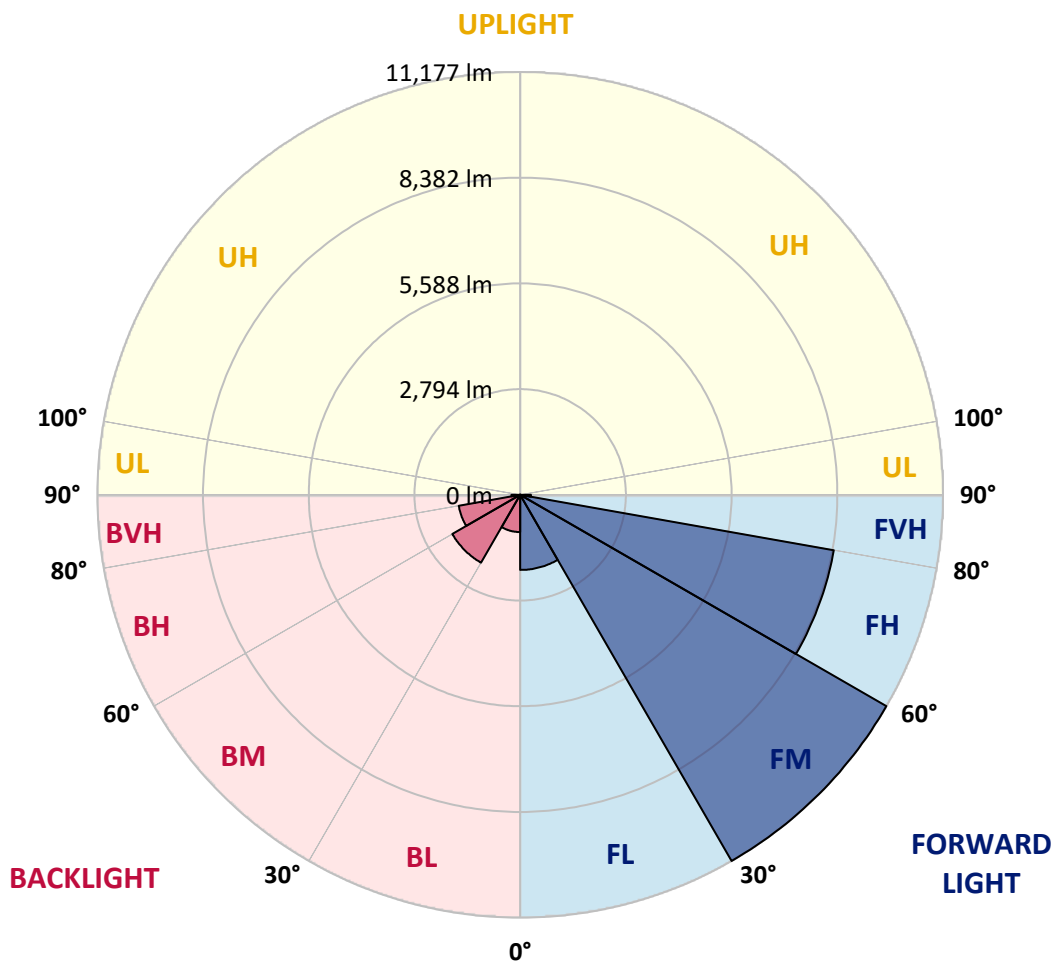
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.6	7.4			
FM	(30°-60°)	11176.5	41.7			
FH	(60°-80°)	8417.8	31.4			G4/12000
FVH	(80°-90°)	282.4	1.1			G3/500
BL	(0°-30°)	984.6	3.7	B2/1000		
BM	(30°-60°)	2070.6	7.7	B2/2500		
BH	(60°-80°)	1648.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	231.3	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°	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9
2.5°	4072.6	4048.8	4052.8	4046.1	4026.4	3992.1	3955.1	3887.9	3817.9	3781.0	3752.0
5°	4413.0	4406.2	4397.1	4376.0	4325.9	4254.6	4166.2	4047.5	3919.6	3852.2	3787.6
7.5°	4667.6	4663.6	4651.8	4638.5	4589.7	4503.9	4370.8	4201.8	4015.9	3923.4	3823.1
10°	4688.7	4695.3	4704.5	4740.0	4746.6	4700.6	4564.6	4360.2	4116.0	3997.4	3869.4
12.5°	4509.2	4523.8	4559.3	4650.3	4746.6	4803.3	4733.4	4526.4	4233.5	4089.8	3927.4
15°	4271.7	4279.6	4323.3	4448.5	4621.3	4796.8	4862.7	4709.8	4385.2	4208.4	4014.4
17.5°	4170.1	4174.2	4204.4	4287.6	4448.5	4699.2	4935.4	4909.0	4571.3	4356.2	4121.3
20°	4118.6	4127.9	4171.5	4253.3	4354.9	4573.9	4945.9	5124.0	4792.8	4540.9	4255.9
22.5°	4265.2	4261.2	4277.0	4318.0	4403.8	4535.6	4938.0	5345.6	5075.2	4778.4	4431.3
25°	4606.9	4621.3	4593.7	4547.5	4575.2	4667.6	4980.3	5585.8	5428.7	5083.1	4660.9
27.5°	5093.6	5079.1	5038.2	4930.1	4873.3	4912.9	5120.0	5844.4	5868.1	5484.2	4964.4
30°	5579.2	5567.2	5527.7	5395.8	5279.7	5246.7	5391.7	6141.2	6391.8	5965.6	5336.4
32.5°	6083.1	6069.8	6032.9	5901.1	5761.2	5684.7	5778.3	6484.1	7009.1	6540.9	5774.3
35°	6704.5	6679.3	6601.6	6418.2	6280.9	6221.7	6265.1	6915.5	7721.7	7221.7	6306.0
37.5°	7288.8	7327.1	7248.0	6994.7	6816.6	6795.5	6844.2	7441.9	8489.4	7982.8	6916.9
40°	7876.0	7882.5	7811.3	7604.2	7420.8	7386.6	7509.2	8080.4	9395.7	8893.1	7659.6
42.5°	8482.9	8496.0	8375.9	8184.6	8050.2	8056.7	8196.6	8828.5	10435.3	9965.6	8514.5
45°	9201.8	9221.6	9089.7	8839.1	8716.3	8963.0	8905.0	9667.5	11575.1	11184.6	9496.1
47.5°	9953.8	9984.1	9883.8	9649.1	9496.1	9835.1	9613.4	10597.6	12802.0	12492.0	10573.8
50°	10364.0	10407.7	10505.1	10488.2	10455.2	10398.4	10403.6	11595.0	14067.2	13853.5	11682.0
52.5°	10143.8	10142.5	10498.6	10931.4	11393.1	11427.3	11366.8	12646.3	15249.3	15184.6	12725.5
55°	9135.9	9204.5	9744.0	10581.8	11843.0	12630.6	12810.0	13850.8	16410.1	16485.4	13784.9
57.5°	7457.8	7514.5	8242.7	9410.3	11236.1	13345.6	14862.7	15601.6	17708.4	18059.3	15195.2
60°	5058.0	5126.6	5898.5	7300.7	9602.8	12947.2	16816.5	18725.4	19262.4	20060.6	17174.1
62.5°	2972.3	3034.2	3663.6	4605.5	6761.2	11096.3	17674.1	23170.1	21730.8	23080.3	20192.6
65°	2046.2	2088.4	2394.4	2866.8	3885.2	7473.5	16610.6	26238.7	25528.9	26821.8	23692.4
67.5°	1646.5	1641.2	1883.8	2205.8	2501.3	3853.5	12560.6	25891.7	28869.3	29408.8	25509.1
70°	1356.3	1351.0	1515.8	1782.2	1998.6	2170.1	6841.6	21849.6	28188.5	28407.6	23836.3
72.5°	1134.6	1139.8	1245.4	1443.2	1639.9	1634.6	3006.5	15370.5	22175.4	23689.8	19001.2
75°	957.9	960.4	1030.4	1170.2	1331.1	1316.6	1630.7	8327.2	12890.5	13944.5	10532.9
77.5°	815.3	817.9	862.8	940.6	1055.4	1050.1	1190.0	3597.6	5377.3	5311.3	3602.9
80°	726.9	726.9	748.0	762.5	825.8	802.0	882.6	1728.2	2273.2	2098.9	1437.9
82.5°	570.0	572.6	701.8	696.5	650.5	620.0	620.0	1018.5	1204.4	1113.4	841.7
85°	320.5	319.3	452.4	546.2	572.6	436.7	432.8	570.0	655.7	577.8	407.7
87.5°	137.3	139.9	209.8	242.7	324.6	271.7	267.9	294.1	333.8	289.0	188.6
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°	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9	3722.9
2.5°	3724.3	3690.0	3614.8	3521.0	3436.6	3381.2	3331.2	3258.5	3262.6	3212.3	3175.5
5°	3721.6	3650.4	3476.3	3269.1	3069.9	2926.0	2818.0	2720.2	2696.5	2650.4	2622.7
7.5°	3724.3	3608.1	3315.3	2984.2	2737.4	2555.4	2463.1	2411.6	2399.7	2383.9	2385.2
10°	3733.4	3570.0	3138.5	2717.6	2459.1	2339.0	2316.5	2332.4	2351.0	2356.2	2357.5
12.5°	3754.6	3535.5	2944.6	2480.2	2285.0	2248.0	2286.2	2340.4	2375.9	2393.2	2391.7
15°	3802.0	3509.1	2758.5	2294.2	2188.6	2208.5	2279.7	2356.2	2407.6	2431.4	2432.7
17.5°	3853.5	3471.0	2567.3	2151.7	2117.5	2167.5	2256.0	2345.7	2409.0	2435.3	2440.7
20°	3920.8	3423.5	2366.8	2044.8	2050.1	2106.9	2190.0	2279.7	2349.5	2372.1	2382.6
22.5°	4009.2	3372.0	2191.2	1957.8	1973.5	2017.1	2081.8	2159.6	2220.3	2230.9	2240.2
25°	4127.9	3316.6	2051.4	1878.6	1885.3	1910.2	1953.9	1999.9	2042.1	2030.3	2039.6
27.5°	4287.6	3269.1	1947.3	1806.0	1794.2	1799.5	1821.9	1836.5	1858.9	1825.8	1829.8
30°	4474.8	3217.6	1866.8	1742.7	1709.7	1700.5	1705.8	1713.6	1730.9	1685.9	1679.4
32.5°	4692.6	3155.7	1791.6	1687.3	1641.2	1622.7	1625.4	1646.5	1712.3	1684.7	1670.2
35°	4945.9	3085.8	1712.3	1626.7	1595.0	1568.6	1565.9	1632.0	1828.5	1811.3	1798.1
37.5°	5242.7	3015.8	1633.3	1558.0	1560.6	1531.7	1522.4	1597.6	1850.9	1783.7	1774.4
40°	5620.1	2978.9	1565.9	1485.4	1518.5	1514.5	1496.0	1534.2	1703.1	1580.5	1564.7
42.5°	6087.1	2984.2	1515.8	1407.6	1468.3	1510.5	1481.6	1482.8	1543.6	1451.2	1436.7
45°	6663.5	3046.2	1480.1	1345.7	1411.5	1506.5	1476.3	1455.2	1460.5	1411.5	1403.7
47.5°	7336.4	3174.2	1455.2	1294.2	1357.5	1492.1	1474.9	1447.2	1435.3	1408.9	1402.3
50°	8084.3	3360.1	1436.7	1245.4	1308.7	1468.3	1476.3	1439.4	1426.1	1415.5	1411.5
52.5°	8819.2	3572.5	1408.9	1203.2	1270.5	1439.4	1480.1	1431.4	1416.8	1408.9	1404.9
55°	9638.5	3837.6	1366.7	1167.5	1238.9	1402.3	1480.1	1419.5	1403.7	1404.9	1403.7
57.5°	10745.3	4266.5	1316.6	1137.3	1200.6	1357.5	1455.2	1406.3	1386.5	1387.8	1389.1
60°	12474.9	5022.5	1255.9	1106.8	1153.1	1304.8	1420.8	1377.3	1357.5	1362.8	1364.0
62.5°	15018.5	6131.9	1176.8	1061.9	1102.8	1248.0	1373.4	1340.5	1320.6	1333.8	1333.8
65°	17662.1	7110.8	1079.1	1005.3	1050.1	1186.0	1314.0	1294.2	1274.3	1304.8	1303.4
67.5°	18373.3	6891.7	981.5	943.3	997.4	1117.4	1242.7	1232.1	1221.7	1274.3	1271.8
70°	16321.8	5532.9	891.7	879.9	939.3	1043.6	1166.2	1166.2	1159.6	1199.1	1190.0
72.5°	12435.2	3923.4	806.0	812.6	873.3	963.1	1083.0	1092.3	1081.7	1101.6	1093.6
75°	6657.0	2245.4	720.4	738.8	791.5	881.2	990.8	1000.1	993.3	992.1	996.0
77.5°	2212.3	1097.5	630.6	659.6	705.8	796.8	894.4	908.9	893.2	890.5	889.2
80°	985.5	690.0	531.6	570.0	610.8	700.5	792.8	804.7	787.6	811.3	780.9
82.5°	633.2	453.9	426.2	468.3	507.9	604.2	691.2	693.9	678.1	787.6	671.6
85°	307.4	281.0	320.5	358.9	393.2	474.9	572.6	573.8	534.3	486.8	469.6
87.5°	153.0	163.6	213.7	248.0	265.2	325.8	417.0	409.0	391.8	356.2	328.5
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)