

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: P269337

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269337  
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-05-LED-E1-T2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 25364.4 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 279  
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

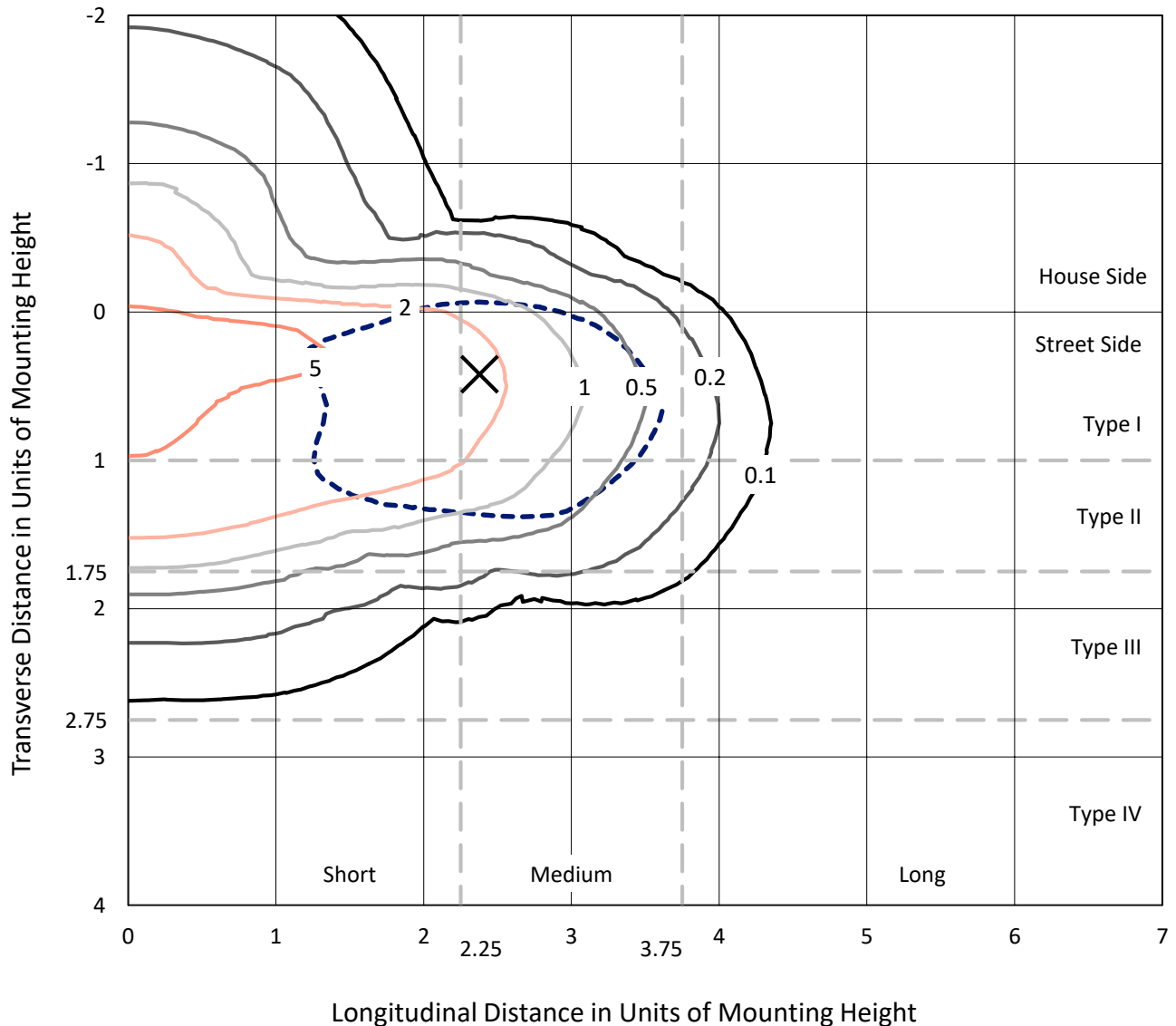


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

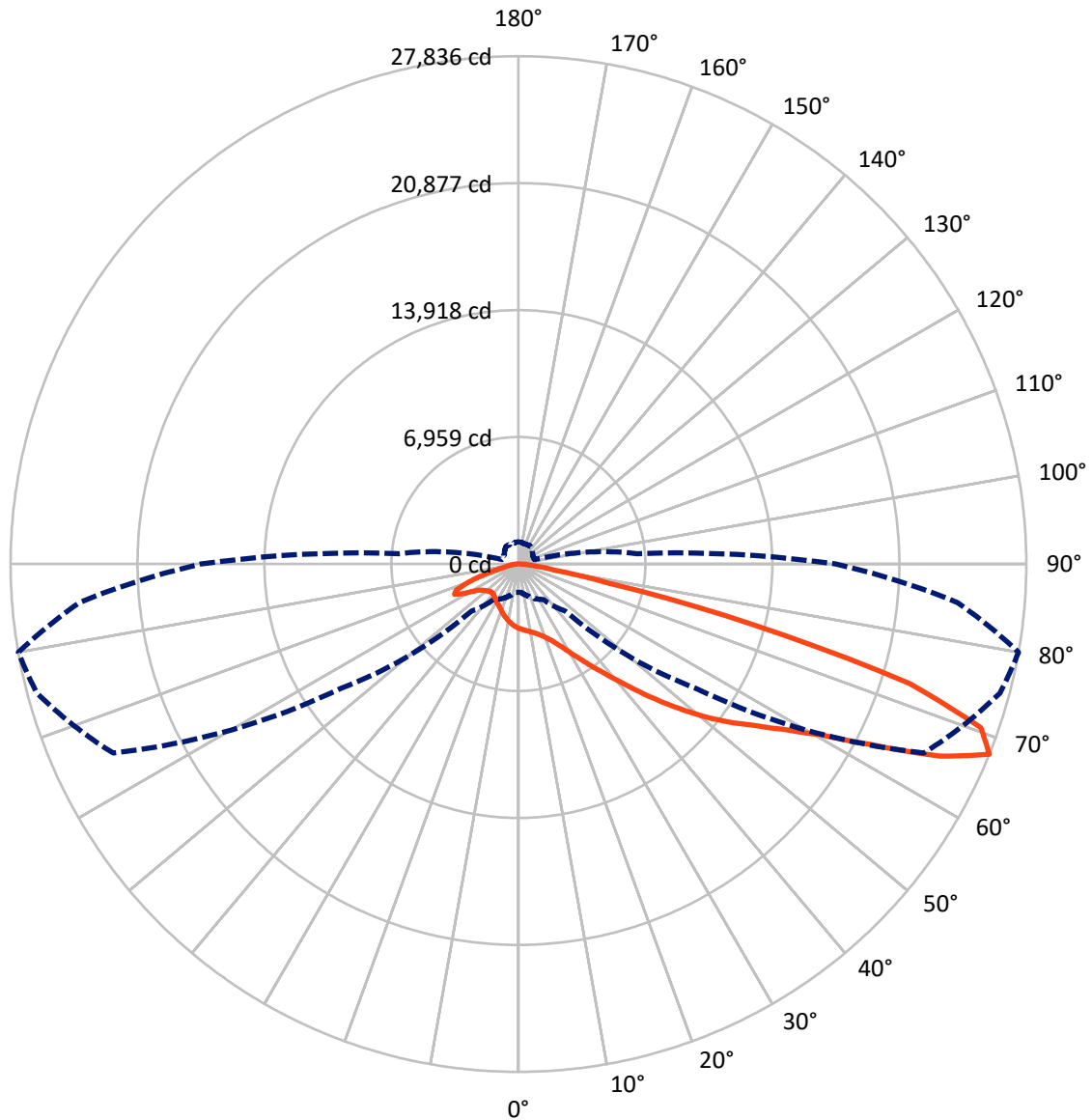


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - Full Cutoff

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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	4671.2	0.0	4671.2
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	20693.3	0.0	20693.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	25364.4	0.0	25364.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.1	1.3
10°-20°	936.4	3.7
20°-30°	1550.0	6.1
30°-40°	2535.3	10.0
40°-50°	4093.5	16.1
50°-60°	5909.9	23.3
60°-70°	6521.9	25.7
70°-80°	3006.2	11.9
80°-90°	486.2	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°	25364.4	100.0
0°-180°	25364.4	100.0



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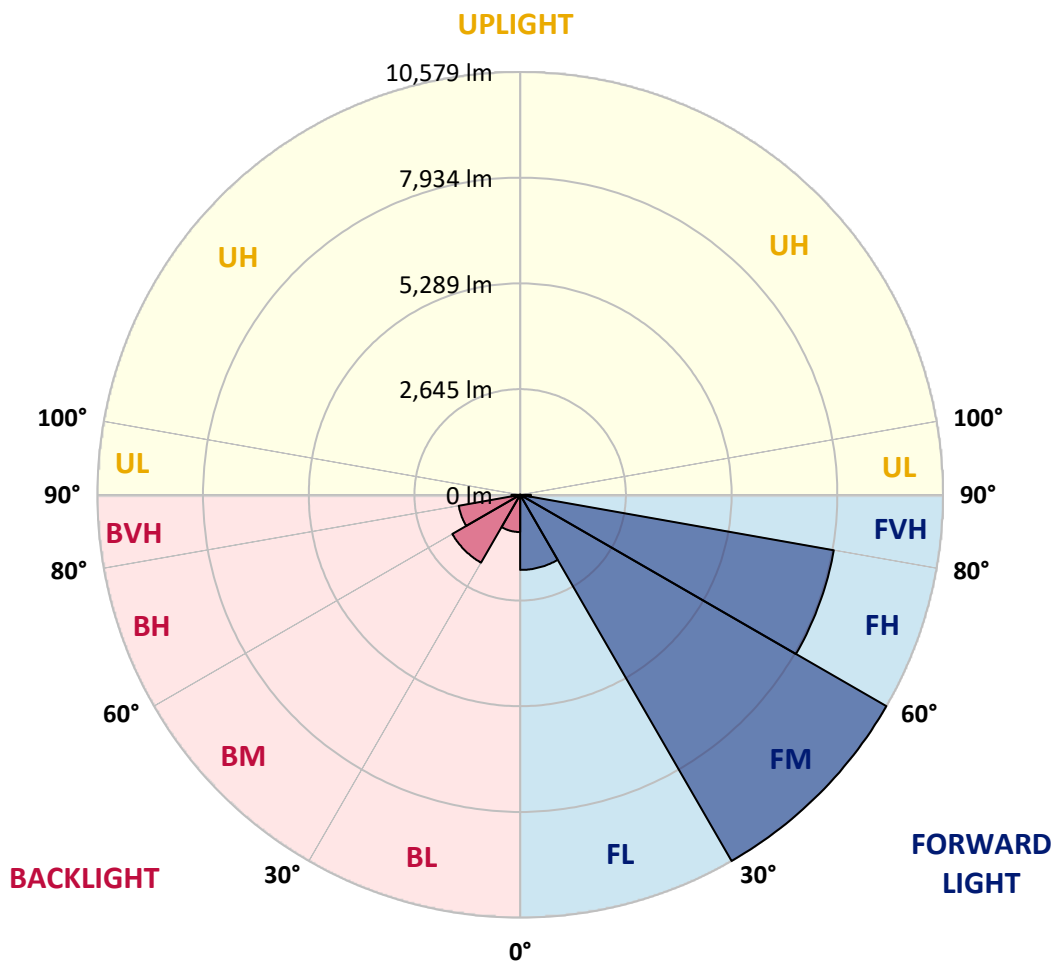
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.5	7.4			
FM (30°-60°)	10578.9	41.7			
FH (60°-80°)	7967.6	31.4			G4/12000
FVH (80°-90°)	267.3	1.1			G3/500
BL (0°-30°)	932.0	3.7	B2/1000		
BM (30°-60°)	1959.8	7.7	B2/2500		
BH (60°-80°)	1560.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	218.9	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°	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8
2.5°	3854.7	3832.3	3836.0	3829.8	3811.1	3778.6	3743.6	3679.9	3613.7	3578.8	3551.3
5°	4176.8	4170.7	4161.9	4141.9	4094.6	4027.1	3943.4	3831.0	3709.9	3646.2	3585.0
7.5°	4418.0	4414.2	4403.0	4390.5	4344.3	4263.0	4137.0	3977.2	3801.1	3713.7	3618.7
10°	4437.8	4444.2	4452.9	4486.7	4492.9	4449.1	4320.6	4127.1	3895.9	3783.7	3662.5
12.5°	4268.0	4281.9	4315.5	4401.6	4492.9	4546.5	4480.3	4284.3	4007.1	3870.9	3717.4
15°	4043.4	4050.7	4092.0	4210.6	4374.2	4540.4	4602.7	4457.8	4150.7	3983.4	3799.8
17.5°	3947.2	3950.9	3979.6	4058.4	4210.6	4447.9	4671.5	4646.5	4326.7	4123.2	3901.0
20°	3898.5	3907.2	3948.4	4025.8	4122.1	4329.3	4681.3	4849.9	4536.6	4298.1	4028.3
22.5°	4037.1	4033.3	4048.3	4087.0	4168.1	4293.1	4673.9	5059.8	4803.7	4522.8	4194.5
25°	4360.6	4374.2	4347.9	4304.3	4330.5	4418.0	4713.9	5287.1	5138.5	4811.3	4411.7
27.5°	4821.3	4807.5	4768.8	4666.4	4612.7	4650.2	4846.3	5531.9	5554.3	5190.9	4698.9
30°	5280.7	5269.5	5232.1	5107.3	4997.4	4966.1	5103.5	5812.8	6049.9	5646.7	5051.0
32.5°	5757.7	5745.3	5710.3	5585.5	5453.2	5380.7	5469.3	6137.4	6634.4	6191.1	5465.6
35°	6345.9	6322.2	6248.5	6075.0	5945.2	5888.8	5930.2	6545.7	7308.7	6835.5	5968.8
37.5°	6899.2	6935.4	6860.4	6620.7	6452.0	6432.1	6478.2	7044.0	8035.5	7556.0	6546.9
40°	7454.8	7461.1	7393.6	7197.6	7023.9	6991.5	7107.7	7648.3	8893.3	8417.6	7250.0
42.5°	8029.2	8041.6	7928.0	7747.1	7619.7	7625.8	7758.2	8356.4	9877.4	9432.7	8059.1
45°	8709.7	8728.6	8603.5	8366.4	8250.3	8483.8	8428.7	9150.6	10956.2	10586.5	8988.3
47.5°	9421.6	9450.2	9355.3	9133.1	8988.3	9309.1	9099.3	10030.8	12117.4	11824.0	10008.3
50°	9809.9	9851.1	9943.5	9927.2	9896.0	9842.3	9847.3	10975.0	13314.9	13112.6	11057.2
52.5°	9601.4	9600.0	9937.2	10346.8	10783.9	10816.3	10758.9	11970.2	14433.8	14372.6	12045.1
55°	8647.4	8712.2	9223.0	10015.9	11209.7	11955.2	12125.0	13110.3	15532.8	15603.9	13047.7
57.5°	7058.9	7112.6	7801.9	8907.1	10635.3	12632.0	14067.9	14767.2	16761.5	17093.6	14382.7
60°	4787.5	4852.5	5583.0	6910.3	9089.3	12254.9	15917.2	17724.2	18232.4	18987.8	16255.6
62.5°	2813.3	2872.1	3467.6	4359.3	6399.6	10503.0	16729.0	21931.1	20568.8	21846.2	19112.8
65°	1936.7	1976.7	2266.5	2713.4	3677.4	7074.0	15722.5	24835.6	24163.8	25387.4	22425.6
67.5°	1558.4	1553.3	1783.1	2087.8	2367.6	3647.5	11889.0	24507.2	27325.5	27836.1	24145.1
70°	1283.7	1278.6	1434.8	1686.9	1891.8	2054.2	6475.8	20681.0	26681.2	26888.4	22561.7
72.5°	1074.0	1078.9	1178.8	1366.1	1552.1	1547.2	2845.8	14548.7	20989.5	22423.0	17985.1
75°	906.6	909.1	975.2	1107.6	1260.0	1246.2	1543.4	7881.9	12201.0	13198.8	9969.7
77.5°	771.7	774.2	816.6	890.3	998.9	994.0	1126.4	3405.2	5089.7	5027.4	3410.2
80°	688.0	688.0	708.0	721.8	781.6	759.2	835.3	1635.9	2151.5	1986.7	1361.1
82.5°	539.4	541.9	664.2	659.4	615.6	587.0	587.0	964.1	1140.0	1053.9	796.6
85°	303.4	302.2	428.3	517.0	541.9	413.3	409.5	539.4	620.5	547.0	385.8
87.5°	129.8	132.4	198.5	229.7	307.2	257.3	253.5	278.5	315.9	273.4	178.6
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°	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8	3523.8
2.5°	3525.0	3492.6	3421.5	3332.8	3252.9	3200.4	3153.1	3084.3	3088.1	3040.7	3005.6
5°	3522.7	3455.2	3290.3	3094.3	2905.7	2769.7	2667.2	2574.8	2552.4	2508.6	2482.5
7.5°	3525.0	3415.3	3138.0	2824.6	2591.2	2418.7	2331.3	2282.7	2271.5	2256.5	2257.7
10°	3533.8	3379.1	2970.7	2572.3	2327.6	2214.0	2192.8	2207.8	2225.2	2230.2	2231.4
12.5°	3553.9	3346.5	2787.1	2347.6	2162.8	2127.7	2163.9	2215.2	2248.9	2265.2	2263.9
15°	3598.8	3321.6	2611.1	2171.6	2071.6	2090.4	2157.8	2230.2	2278.9	2301.4	2302.6
17.5°	3647.5	3285.3	2429.9	2036.6	2004.2	2051.5	2135.4	2220.3	2280.2	2305.1	2310.1
20°	3711.2	3240.4	2240.3	1935.5	1940.5	1994.1	2072.8	2157.8	2223.9	2245.1	2255.1
22.5°	3794.8	3191.7	2074.0	1853.1	1868.0	1909.3	1970.4	2044.2	2101.6	2111.6	2120.3
25°	3907.2	3139.2	1941.7	1778.1	1784.5	1808.1	1849.3	1893.1	1933.1	1921.7	1930.5
27.5°	4058.4	3094.3	1843.1	1709.5	1698.2	1703.2	1724.4	1738.2	1759.4	1728.2	1731.9
30°	4235.6	3045.7	1767.0	1649.6	1618.3	1609.7	1614.6	1622.1	1638.2	1595.8	1589.6
32.5°	4441.7	2987.0	1695.7	1597.0	1553.3	1535.9	1538.3	1558.4	1620.8	1594.6	1580.8
35°	4681.3	2920.7	1620.8	1539.7	1509.7	1484.7	1482.3	1544.6	1730.8	1714.4	1702.0
37.5°	4962.3	2854.5	1546.0	1474.7	1477.3	1449.8	1441.1	1512.1	1752.0	1688.3	1679.6
40°	5319.6	2819.6	1482.3	1406.0	1437.3	1433.5	1416.1	1452.2	1612.1	1495.9	1480.9
42.5°	5761.5	2824.6	1434.8	1332.4	1389.8	1429.7	1402.3	1403.5	1461.1	1373.6	1359.9
45°	6307.2	2883.3	1401.0	1273.6	1336.0	1426.0	1397.4	1377.3	1382.3	1336.0	1328.7
47.5°	6944.1	3004.4	1377.3	1225.0	1284.9	1412.2	1396.1	1369.8	1358.5	1333.7	1327.3
50°	7652.1	3180.4	1359.9	1178.8	1238.8	1389.8	1397.4	1362.3	1349.9	1339.8	1336.0
52.5°	8347.6	3381.5	1333.7	1138.8	1202.6	1362.3	1401.0	1354.9	1341.1	1333.7	1329.9
55°	9123.0	3632.4	1293.6	1105.2	1172.6	1327.3	1401.0	1343.7	1328.7	1329.9	1328.7
57.5°	10170.7	4038.3	1246.2	1076.3	1136.4	1284.9	1377.3	1331.1	1312.5	1313.6	1314.8
60°	11807.9	4753.8	1188.7	1047.7	1091.4	1235.0	1344.9	1303.6	1284.9	1290.0	1291.1
62.5°	14215.3	5803.9	1113.9	1005.3	1043.9	1181.4	1299.8	1268.6	1249.9	1262.5	1262.5
65°	16717.6	6730.6	1021.5	951.6	994.0	1122.6	1243.8	1225.0	1206.2	1235.0	1233.7
67.5°	17390.7	6523.2	929.0	892.8	943.9	1057.7	1176.3	1166.3	1156.3	1206.2	1203.8
70°	15449.1	5237.1	844.1	832.9	889.1	987.7	1103.8	1103.8	1097.5	1135.1	1126.4
72.5°	11770.3	3713.7	763.0	769.2	826.6	911.6	1025.1	1033.9	1024.0	1042.7	1035.1
75°	6301.0	2125.3	681.9	699.3	749.2	834.2	937.8	946.5	940.3	939.0	942.9
77.5°	2094.0	1038.9	596.8	624.3	668.1	754.2	846.7	860.3	845.3	842.9	841.6
80°	932.8	653.1	503.2	539.4	578.1	663.0	750.4	761.8	745.5	768.0	739.2
82.5°	599.3	429.6	403.2	443.4	480.8	572.0	654.3	656.8	641.7	745.5	635.6
85°	291.0	266.0	303.4	339.6	372.1	449.5	541.9	543.1	505.7	460.8	444.5
87.5°	144.8	154.9	202.3	234.7	250.9	308.5	394.5	387.1	370.9	337.1	311.0
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)