

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: P192058

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL4-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55984 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

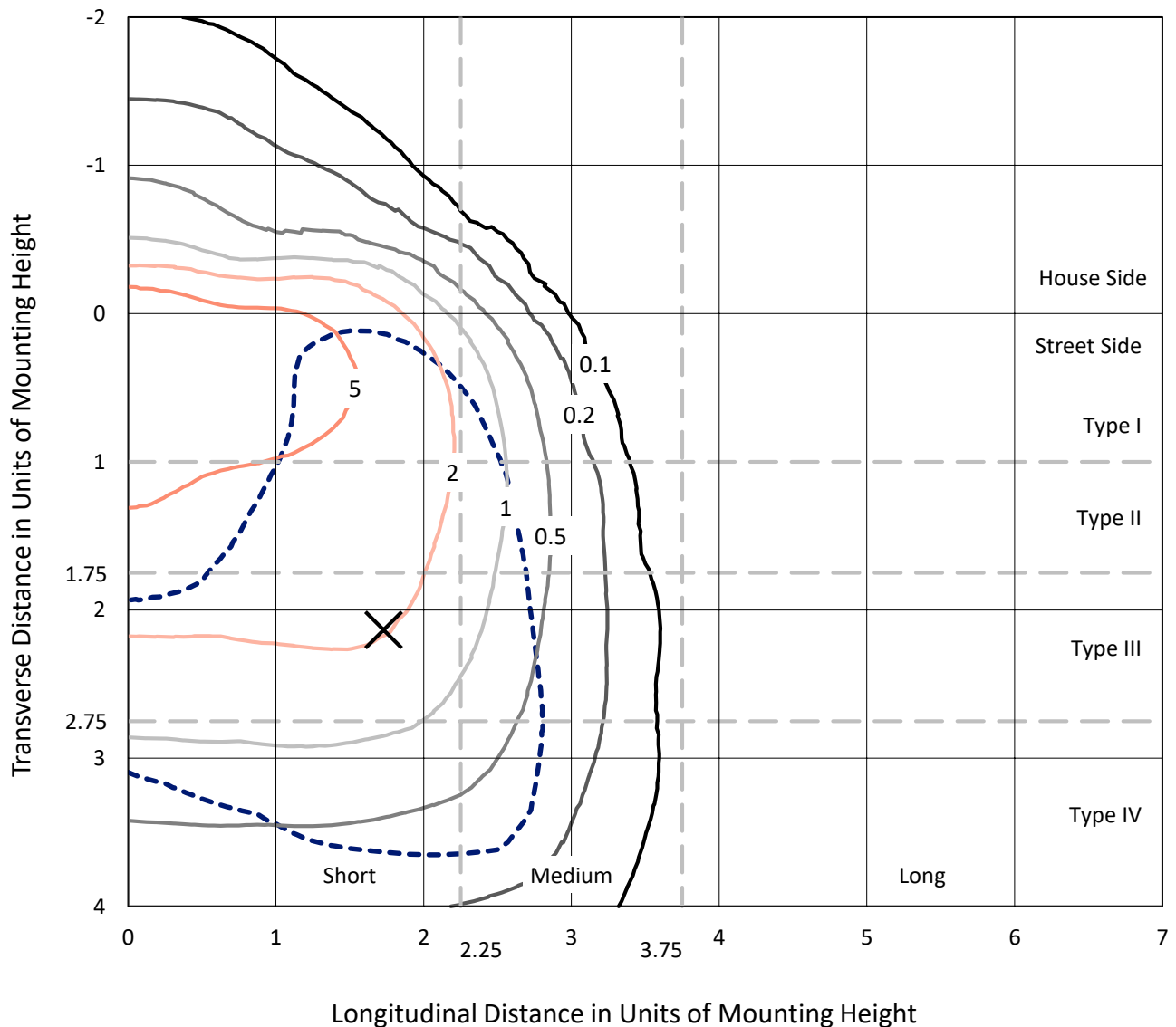
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

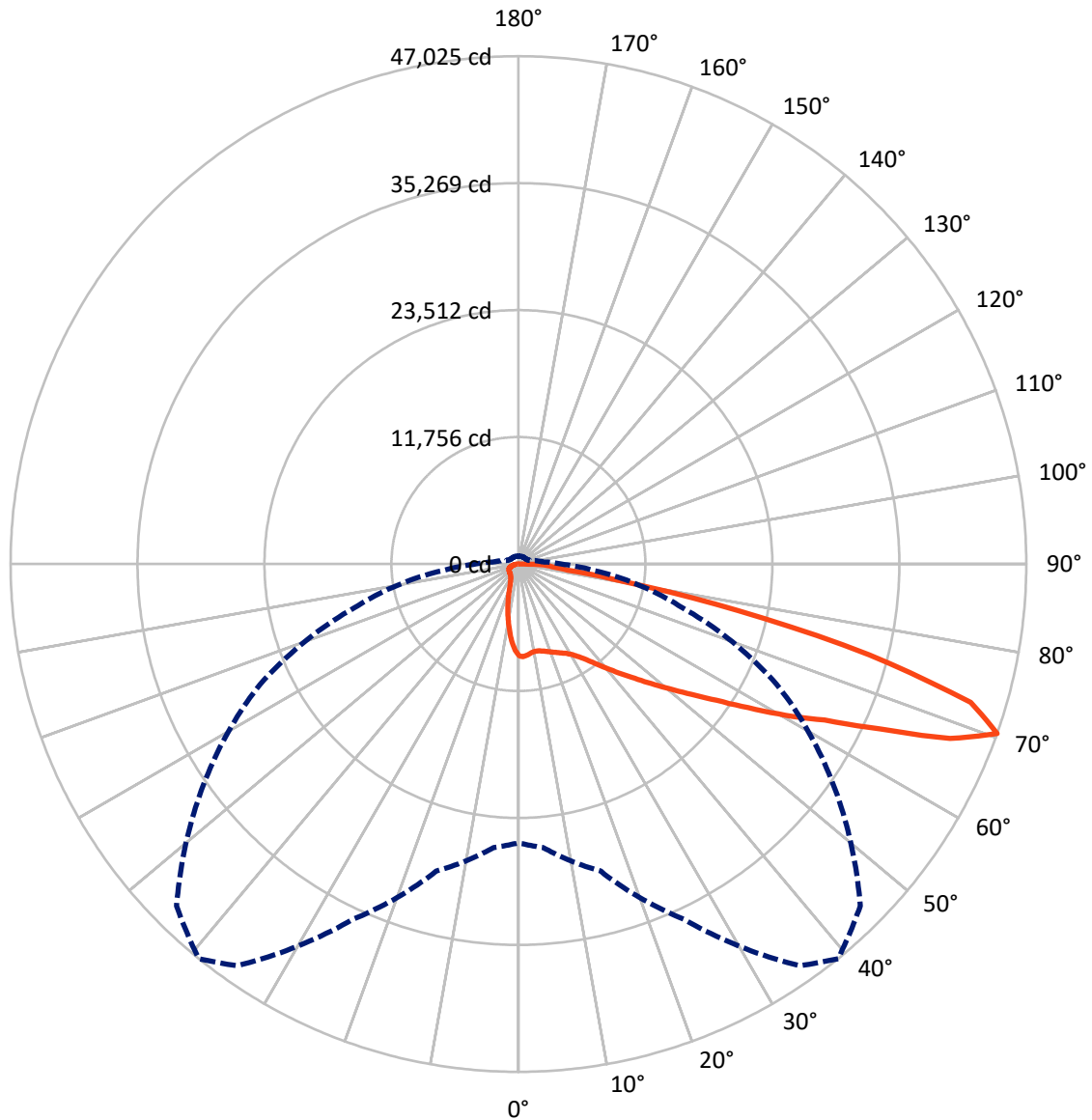
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6367.3	0.0	6367.3
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	49616.7	0.0	49616.7
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	55984.0	0.0	55984.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.4	1.3
10°-20°	1823.2	3.3
20°-30°	2838.8	5.1
30°-40°	4422.3	7.9
40°-50°	7424.3	13.3
50°-60°	11794.2	21.1
60°-70°	15732.1	28.1
70°-80°	9500.2	17.0
80°-90°	1719.4	3.1
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°	55984.0	100.0
0°-180°	55984.0	100.0



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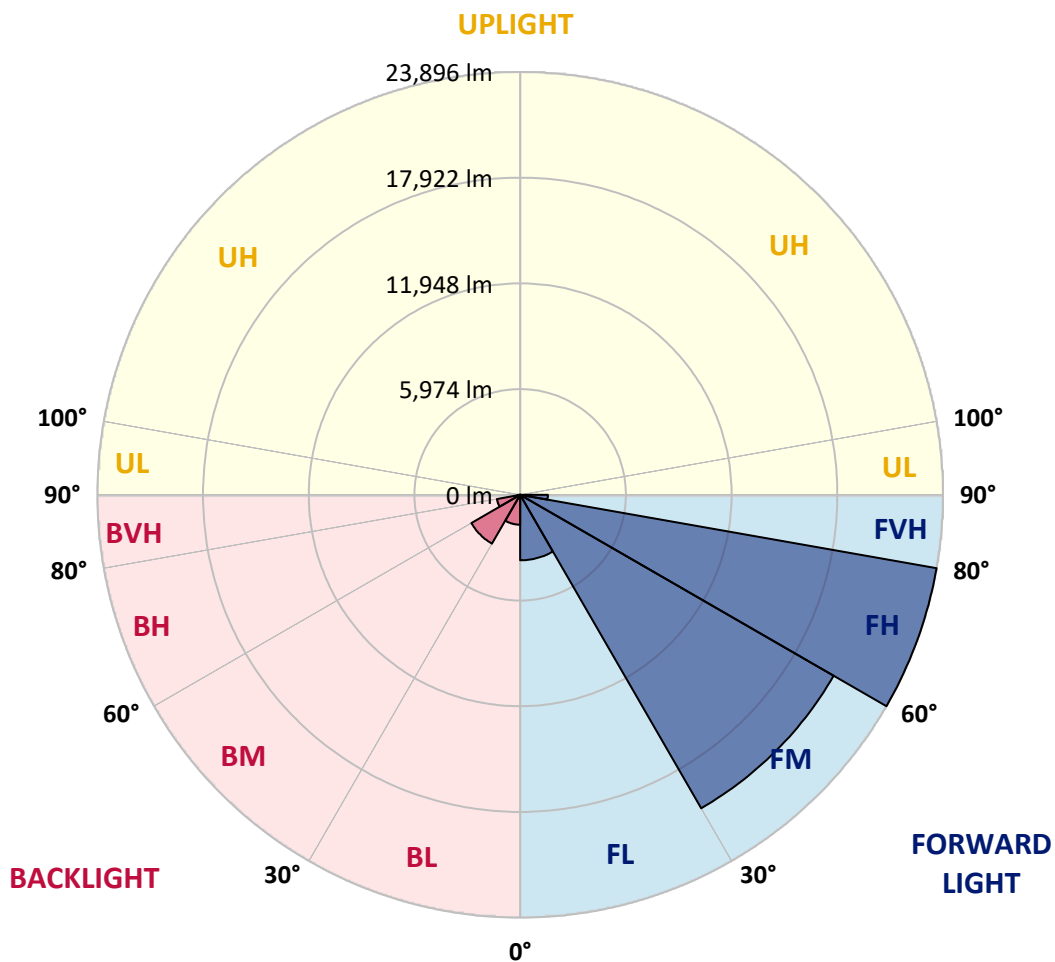
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3702.3	6.6			
FM	(30°-60°)	20454.4	36.5			
FH	(60°-80°)	23895.6	42.7			G5
FVH	(80°-90°)	1564.4	2.8			G5
BL	(0°-30°)	1689.1	3.0	B3/2500		
BM	(30°-60°)	3186.4	5.7	B3/5000		
BH	(60°-80°)	1336.7	2.4	B3/2500		G3/2500
BVH	(80°-90°)	155.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2
2.5°	8664.3	8661.5	8638.7	8621.6	8607.4	8601.7	8613.1	8570.4	8533.4	8487.9	8439.5
5°	8598.9	8596.0	8559.0	8524.9	8490.7	8479.3	8476.5	8399.6	8354.1	8285.8	8194.7
7.5°	8527.7	8513.5	8465.1	8408.2	8348.4	8319.9	8291.5	8191.8	8140.6	8072.3	7967.0
10°	8453.7	8436.6	8391.1	8334.1	8277.2	8234.5	8186.1	8089.4	8035.3	7984.0	7861.7
12.5°	8376.8	8362.6	8351.2	8325.6	8285.8	8248.8	8211.8	8129.2	8072.3	8012.5	7870.2
15°	8365.5	8359.8	8385.4	8402.5	8379.7	8356.9	8317.1	8245.9	8186.1	8126.4	7941.4
17.5°	8456.5	8453.7	8519.2	8564.7	8553.3	8513.5	8459.4	8379.7	8331.3	8280.1	8049.5
20°	8655.8	8670.0	8749.7	8809.5	8752.6	8695.6	8607.4	8496.4	8470.8	8448.0	8160.5
22.5°	9031.5	9045.7	9102.7	9125.4	8977.4	8894.9	8772.5	8630.2	8613.1	8630.2	8294.3
25°	9617.9	9603.6	9595.1	9509.7	9239.3	9111.2	8954.7	8806.6	8815.2	8892.0	8482.2
27.5°	10394.9	10318.1	10198.5	9942.3	9512.5	9370.2	9179.5	9042.9	9097.0	9245.0	8764.0
30°	11200.4	11115.0	10838.9	10420.5	9871.2	9714.6	9501.2	9347.5	9489.8	9723.2	9139.7
32.5°	11946.2	11934.8	11530.6	10992.7	10366.5	10229.8	10016.4	9842.7	10073.3	10429.1	9703.3
35°	12760.2	12785.9	12302.0	11655.9	11035.3	10893.0	10739.3	10608.4	10915.8	11405.4	10520.2
37.5°	13631.2	13682.5	13110.3	12381.7	11798.2	11738.4	11647.3	11590.4	12065.7	12743.2	11661.5
40°	14795.4	14744.2	13950.0	13201.4	12734.6	12731.8	12703.3	12771.6	13562.9	14490.8	13127.4
42.5°	16042.1	15891.2	14840.9	14081.0	13762.2	13858.9	13915.9	14194.8	15364.7	16614.2	14914.9
45°	17385.6	17046.9	15766.0	15011.7	14903.6	15108.5	15302.0	15908.3	17485.2	19030.8	16873.2
47.5°	18458.7	18131.3	16722.4	15988.0	16224.3	16534.5	16907.4	17866.6	19859.1	21527.0	18805.9
50°	19304.0	19090.6	17687.3	17126.6	17678.8	18156.9	18766.1	20083.9	22329.7	23957.8	20596.3
52.5°	20123.8	19964.4	18660.8	18293.6	19386.6	20046.9	20875.2	22463.5	24863.0	26348.8	22102.0
55°	20863.8	20750.0	19708.2	19748.1	21396.1	22255.7	23297.5	25173.2	27623.9	28480.7	23377.2
57.5°	21697.8	21552.7	20903.7	21572.6	23977.8	25093.5	26448.4	28218.8	30214.1	30376.4	24347.8
60°	22537.5	22412.3	22230.1	23678.9	27256.8	28429.5	29713.2	31170.5	32841.3	31848.0	24290.9
62.5°	23266.2	23280.4	23602.0	25890.5	30467.5	31825.2	33390.7	34830.9	35218.0	32104.1	22494.8
65°	24501.5	24726.4	25685.6	29021.5	34987.5	36803.5	38724.8	38494.2	35875.6	29710.3	18643.7
67.5°	25970.2	26365.9	28309.9	33194.3	40700.1	43111.0	43853.9	39322.5	33242.7	24151.4	13289.7
70°	25822.2	26365.9	29442.8	36305.4	45408.0	47024.8	44770.4	35588.1	26397.2	15777.4	7059.0
72.5°	22930.3	23707.4	27134.4	34879.3	43925.1	43782.8	38867.1	26530.9	15683.5	6336.0	2758.1
75°	17476.7	18262.3	21211.1	27555.6	34717.1	33521.6	27578.4	14655.9	5951.7	2516.2	1739.1
77.5°	10053.4	10662.5	12939.6	16898.9	22025.2	20798.4	15350.4	6518.2	2897.6	1753.4	1357.7
80°	5613.0	5951.7	7335.1	8573.2	10793.4	9894.0	6868.3	4050.4	2163.2	1272.3	1047.5
82.5°	4437.5	4739.2	5931.8	5408.1	4929.9	4548.5	3945.1	3606.3	1727.7	802.7	626.2
85°	3876.7	4164.2	5021.0	4258.2	3367.2	3088.3	3205.0	3549.4	1343.5	483.9	535.1
87.5°	3592.1	3976.4	4474.5	3281.9	2621.5	2322.6	2957.4	3891.0	432.6	301.7	216.3
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°	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2	8499.2
2.5°	8396.8	8351.2	8277.2	8211.8	8109.3	8055.2	7995.4	7952.7	7918.6	7890.1	7935.7
5°	8137.8	8052.4	7895.8	7727.9	7528.6	7372.1	7241.1	7118.8	7033.4	6976.4	7016.3
7.5°	7893.0	7753.5	7508.7	7204.1	6862.6	6572.3	6333.2	6122.5	5977.4	5883.4	5920.4
10°	7753.5	7579.9	7201.3	6723.1	6219.3	5766.7	5391.0	5066.5	4841.7	4713.6	4733.5
12.5°	7719.3	7494.5	6970.7	6313.2	5624.4	4995.4	4465.9	4016.2	3700.3	3535.2	3540.9
15°	7745.0	7457.5	6754.4	5920.4	5049.4	4255.3	3595.0	3048.5	2681.3	2493.4	2490.6
17.5°	7787.6	7429.0	6526.7	5496.3	4465.9	3543.7	2806.5	2271.4	1946.9	1796.1	1784.7
20°	7833.2	7383.5	6270.5	5038.1	3859.7	2883.4	2197.4	1779.0	1574.0	1491.5	1485.8
22.5°	7898.7	7343.6	6005.8	4554.2	3264.8	2348.2	1807.4	1525.7	1417.5	1374.8	1369.1
25°	8004.0	7323.7	5724.0	4050.4	2729.7	1964.0	1574.0	1400.4	1337.8	1309.3	1306.5
27.5°	8180.4	7352.2	5459.3	3560.8	2294.2	1705.0	1443.1	1337.8	1292.2	1266.6	1263.8
30°	8408.2	7440.4	5180.4	3096.8	1955.5	1528.5	1363.4	1295.1	1258.1	1232.5	1232.5
32.5°	8786.7	7588.4	4887.2	2695.5	1713.5	1406.1	1303.6	1258.1	1226.8	1206.9	1204.0
35°	9344.6	7867.3	4614.0	2362.5	1539.9	1317.9	1252.4	1218.2	1195.5	1184.1	1184.1
37.5°	10155.8	8308.5	4372.0	2123.4	1434.6	1258.1	1204.0	1178.4	1164.2	1164.2	1164.2
40°	11246.0	8917.7	4175.6	1964.0	1374.8	1215.4	1167.0	1147.1	1138.5	1141.4	1141.4
42.5°	12592.3	9708.9	4044.7	1853.0	1346.3	1189.8	1141.4	1124.3	1115.8	1112.9	1115.8
45°	14126.5	10608.4	4030.4	1770.4	1317.9	1172.7	1124.3	1107.2	1090.2	1078.8	1078.8
47.5°	15618.0	11522.1	4147.2	1742.0	1286.6	1152.8	1110.1	1093.0	1067.4	1041.8	1041.8
50°	16935.9	12299.1	4303.7	1753.4	1275.2	1124.3	1087.3	1078.8	1038.9	1010.5	1007.6
52.5°	17983.3	12896.9	4431.8	1787.5	1286.6	1104.4	1058.8	1061.7	1019.0	987.7	984.8
55°	18823.0	13289.7	4397.6	1821.7	1312.2	1093.0	1033.2	1038.9	1004.8	973.5	973.5
57.5°	19190.2	13144.5	4019.1	1793.2	1332.1	1095.8	1013.3	1036.1	1007.6	979.1	979.1
60°	18401.7	11855.1	3310.3	1668.0	1306.5	1087.3	1004.8	1047.5	1044.6	1016.2	1013.3
62.5°	16016.5	9546.7	2567.4	1483.0	1218.2	1044.6	982.0	1044.6	1075.9	1067.4	1064.5
65°	12344.7	6800.0	1961.1	1283.7	1098.7	973.5	922.2	979.1	1021.8	1033.2	1030.4
67.5°	8012.5	4167.1	1511.4	1095.8	964.9	890.9	845.4	871.0	879.5	879.5	873.8
70°	3939.4	2242.9	1204.0	922.2	828.3	802.7	777.1	762.8	748.6	737.2	737.2
72.5°	1944.1	1465.9	990.5	779.9	714.4	703.1	697.4	680.3	668.9	654.7	649.0
75°	1437.4	1192.6	842.5	657.5	614.8	603.4	614.8	600.6	597.7	586.4	580.7
77.5°	1181.2	1016.2	725.8	563.6	526.6	506.7	523.7	526.6	529.4	512.3	506.7
80°	959.2	859.6	606.3	466.8	432.6	418.4	429.8	452.6	458.3	432.6	421.3
82.5°	691.7	703.1	489.6	364.3	335.9	324.5	347.3	375.7	381.4	344.4	335.9
85°	580.7	586.4	375.7	259.0	230.6	213.5	250.5	278.9	298.9	261.9	253.3
87.5°	241.9	344.4	216.3	145.2	128.1	111.0	133.8	148.0	179.3	165.1	162.2
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)