

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: P191267

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191267
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-09-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 56743.1 lumens
Efficiency: N/A
Efficacy: 98.7 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

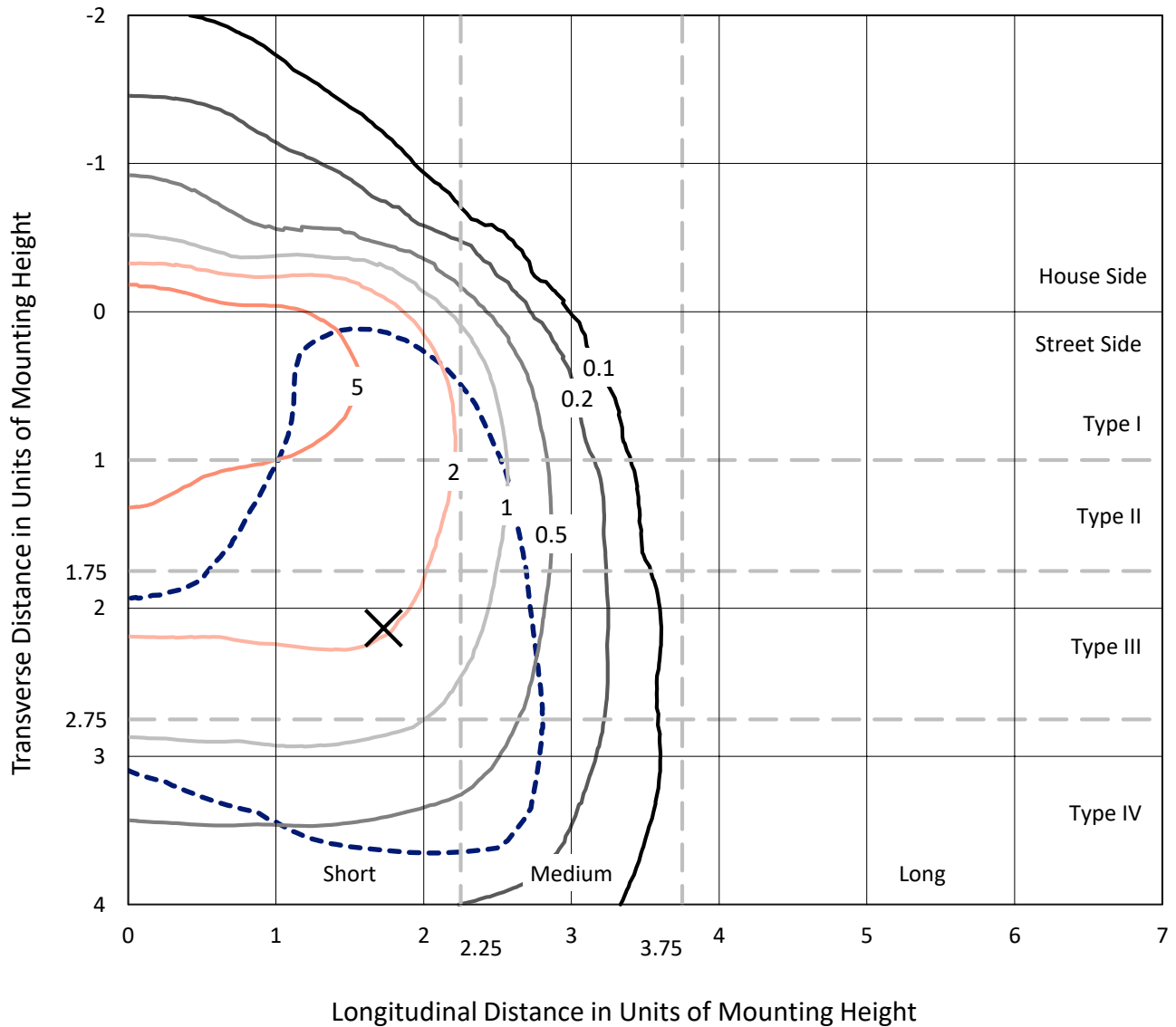
Input Watts (W): 575
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

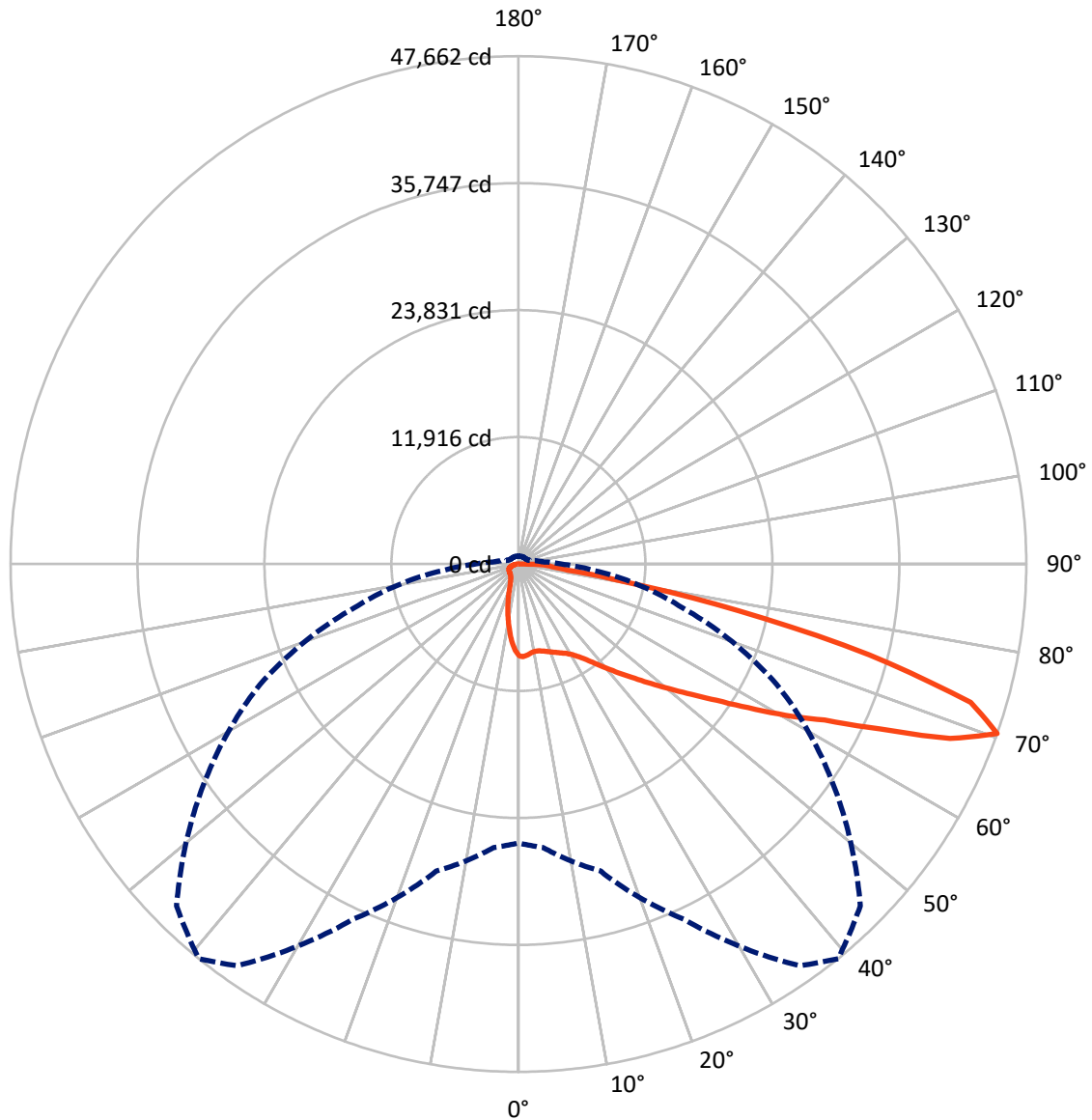
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	6453.6	0.0	6453.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	50289.5	0.0	50289.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	56743.1	0.0	56743.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.3	1.3
10°-20°	1847.9	3.3
20°-30°	2877.3	5.1
30°-40°	4482.3	7.9
40°-50°	7525.0	13.3
50°-60°	11954.1	21.1
60°-70°	15945.4	28.1
70°-80°	9629.0	17.0
80°-90°	1742.7	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°	56743.1	100.0
0°-180°	56743.1	100.0



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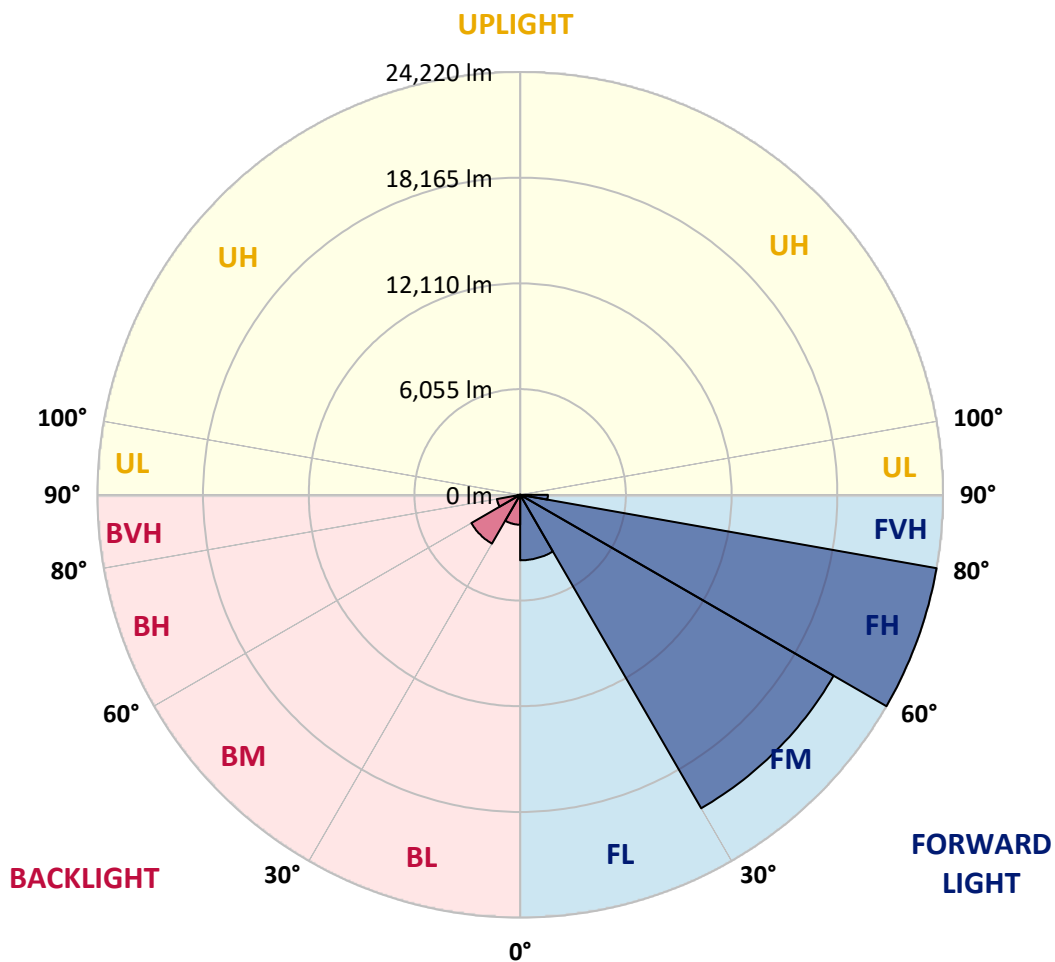
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3752.5	6.6			
FM	(30°-60°)	20731.7	36.5			
FH	(60°-80°)	24219.6	42.7			G5
FVH	(80°-90°)	1585.7	2.8			G5
BL	(0°-30°)	1712.0	3.0	B3/2500		
BM	(30°-60°)	3229.7	5.7	B3/5000		
BH	(60°-80°)	1354.9	2.4	B3/2500		G3/2500
BVH	(80°-90°)	157.1	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°	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5
2.5°	8781.8	8779.0	8755.8	8738.6	8724.1	8718.3	8729.9	8686.6	8649.0	8602.9	8553.9
5°	8715.4	8712.6	8675.0	8640.5	8605.8	8594.3	8591.4	8513.5	8467.4	8398.1	8305.7
7.5°	8643.3	8628.9	8579.9	8522.2	8461.5	8432.7	8403.8	8302.9	8251.0	8181.8	8075.0
10°	8568.3	8551.1	8504.8	8447.1	8389.4	8346.2	8297.2	8199.1	8144.2	8092.3	7968.3
12.5°	8490.4	8476.0	8464.5	8438.5	8398.1	8360.6	8323.1	8239.5	8181.8	8121.1	7976.9
15°	8478.9	8473.1	8499.1	8516.4	8493.4	8470.2	8429.8	8357.7	8297.2	8236.6	8049.0
17.5°	8571.2	8568.3	8634.6	8680.9	8669.3	8628.9	8574.1	8493.4	8444.3	8392.3	8158.6
20°	8773.1	8787.6	8868.4	8928.9	8871.2	8813.5	8724.1	8611.6	8585.6	8562.5	8271.2
22.5°	9154.0	9168.4	9226.1	9249.2	9099.1	9015.5	8891.4	8747.2	8729.9	8747.2	8406.7
25°	9748.3	9733.9	9725.2	9638.7	9364.6	9234.8	9076.0	8926.1	8934.8	9012.6	8597.2
27.5°	10535.9	10457.9	10336.8	10077.2	9641.5	9497.3	9303.9	9165.5	9220.4	9370.3	8882.8
30°	11352.3	11265.8	10985.9	10561.9	10005.1	9846.3	9630.0	9474.2	9618.4	9855.0	9263.6
32.5°	12108.2	12096.6	11687.0	11141.7	10507.0	10368.5	10152.2	9976.2	10209.9	10570.5	9834.9
35°	12933.3	12959.3	12468.7	11813.9	11184.9	11040.7	10884.9	10752.2	11063.8	11560.1	10662.8
37.5°	13816.1	13867.9	13288.1	12549.6	11958.2	11897.5	11805.3	11747.6	12229.4	12916.0	11819.7
40°	14996.0	14944.1	14139.1	13380.4	12907.3	12904.4	12875.6	12944.8	13746.8	14687.3	13305.4
42.5°	16259.6	16106.7	15042.2	14271.9	13948.8	14046.9	14104.5	14387.3	15573.0	16839.5	15117.2
45°	17621.4	17278.0	15979.8	15215.3	15105.6	15313.4	15509.6	16124.1	17722.3	19288.9	17102.0
47.5°	18709.0	18377.2	16949.1	16204.8	16444.2	16758.7	17136.7	18108.9	20128.3	21818.9	19060.9
50°	19565.8	19349.4	17927.1	17358.8	17918.4	18403.1	19020.5	20356.2	22632.5	24282.7	20875.6
52.5°	20396.6	20235.1	18913.7	18541.6	19649.5	20318.8	21158.3	22768.1	25200.1	26706.1	22401.7
55°	21146.7	21031.4	19975.5	20015.9	21686.3	22557.5	23613.4	25514.5	27998.5	28866.9	23694.1
57.5°	21992.0	21844.9	21187.2	21865.1	24302.9	25433.7	26807.0	28601.5	30623.8	30788.3	24677.9
60°	22843.1	22716.2	22531.5	24000.0	27626.3	28815.0	30116.1	31593.1	33286.6	32279.7	24620.2
62.5°	23581.7	23596.1	23922.0	26241.6	30880.5	32256.7	33843.4	35303.3	35695.6	32539.5	22799.8
65°	24833.7	25061.6	26033.9	29415.1	35461.9	37302.5	39249.8	39016.2	36362.0	30113.2	18896.5
67.5°	26322.4	26723.4	28693.8	33644.3	41252.0	43695.5	44448.5	39855.7	33693.4	24478.8	13469.9
70°	26172.3	26723.4	29842.0	36797.6	46023.7	47662.3	45377.5	36070.6	26755.1	15991.3	7154.7
72.5°	23241.2	24028.8	27502.2	35352.3	44520.7	44376.4	39394.0	26890.7	15896.1	6421.9	2795.5
75°	17713.6	18509.9	21498.7	27929.2	35187.8	33976.1	27952.3	14854.7	6032.4	2550.3	1762.7
77.5°	10189.7	10807.1	13115.0	17128.0	22323.8	21080.4	15558.6	6606.5	2936.9	1777.2	1376.1
80°	5689.1	6032.4	7434.5	8689.5	10939.7	10028.1	6961.4	4105.3	2192.6	1289.5	1061.6
82.5°	4497.6	4803.5	6012.3	5481.4	4996.7	4610.1	3998.5	3655.2	1751.2	813.6	634.7
85°	3929.4	4220.7	5089.1	4315.9	3412.9	3130.1	3248.5	3597.5	1361.6	490.4	542.4
87.5°	3640.8	4030.3	4535.2	3326.3	2657.0	2354.1	2997.5	3943.8	438.5	305.8	219.2
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°	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5	8614.5
2.5°	8510.6	8464.5	8389.4	8323.1	8219.2	8164.4	8103.8	8060.5	8026.0	7997.1	8043.3
5°	8248.1	8161.5	8002.9	7832.6	7630.7	7472.0	7339.4	7215.3	7128.7	7071.0	7111.5
7.5°	8000.0	7858.6	7610.5	7301.8	6955.7	6661.4	6419.0	6205.5	6058.4	5963.2	6000.7
10°	7858.6	7682.7	7299.0	6814.3	6303.6	5844.9	5464.1	5135.2	4907.3	4777.5	4797.6
12.5°	7824.0	7596.1	7065.2	6398.9	5700.7	5063.1	4526.5	4070.6	3750.4	3583.1	3588.9
15°	7849.9	7558.6	6846.0	6000.7	5117.9	4313.0	3643.8	3089.8	2717.7	2527.2	2524.3
17.5°	7893.2	7529.7	6615.2	5570.9	4526.5	3591.8	2844.5	2302.2	1973.3	1820.4	1808.9
20°	7939.4	7483.6	6355.6	5106.4	3912.0	2922.5	2227.2	1803.1	1595.4	1511.7	1506.0
22.5°	8005.7	7443.2	6087.3	4616.0	3309.0	2380.1	1831.9	1546.3	1436.7	1393.5	1387.6
25°	8112.5	7423.0	5801.7	4105.3	2766.7	1990.7	1595.4	1419.4	1355.9	1327.1	1324.2
27.5°	8291.3	7451.9	5533.3	3609.1	2325.3	1728.1	1462.7	1355.9	1309.8	1283.8	1280.9
30°	8522.2	7541.3	5250.6	3138.8	1982.0	1549.3	1381.9	1312.7	1275.1	1249.2	1249.2
32.5°	8905.8	7691.3	4953.4	2732.1	1736.8	1425.2	1321.3	1275.1	1243.4	1223.2	1220.4
35°	9471.3	7974.0	4676.5	2394.5	1560.7	1335.8	1269.4	1234.8	1211.7	1200.1	1200.1
37.5°	10293.5	8421.2	4431.3	2152.2	1454.0	1275.1	1220.4	1194.4	1180.0	1180.0	1180.0
40°	11398.4	9038.6	4232.3	1990.7	1393.5	1231.8	1182.8	1162.7	1154.0	1156.9	1156.9
42.5°	12763.1	9840.6	4099.5	1878.1	1364.6	1206.0	1156.9	1139.6	1130.9	1128.0	1130.9
45°	14318.0	10752.2	4085.1	1794.5	1335.8	1188.6	1139.6	1122.3	1104.9	1093.4	1093.4
47.5°	15829.8	11678.3	4203.4	1765.6	1304.0	1168.4	1125.1	1107.9	1081.9	1055.9	1055.9
50°	17165.5	12465.9	4362.1	1777.2	1292.5	1139.6	1102.0	1093.4	1053.0	1024.2	1021.3
52.5°	18227.1	13071.8	4491.9	1811.7	1304.0	1119.3	1073.2	1076.0	1032.8	1001.1	998.2
55°	19078.2	13469.9	4457.3	1846.3	1329.9	1107.9	1047.2	1053.0	1018.3	986.6	986.6
57.5°	19450.4	13322.7	4073.6	1817.5	1350.2	1110.7	1027.0	1050.2	1021.3	992.5	992.5
60°	18651.3	12015.9	3355.2	1690.6	1324.2	1102.0	1018.3	1061.6	1058.8	1029.9	1027.0
62.5°	16233.6	9676.2	2602.2	1503.0	1234.8	1058.8	995.3	1058.8	1090.5	1081.9	1079.0
65°	12512.0	6892.1	1987.7	1301.1	1113.6	986.6	934.8	992.5	1035.7	1047.2	1044.3
67.5°	8121.1	4223.6	1531.9	1110.7	978.0	903.0	856.8	882.8	891.5	891.5	885.7
70°	3992.8	2273.3	1220.4	934.8	839.5	813.6	787.6	773.1	758.7	747.2	747.2
72.5°	1970.4	1485.7	1003.9	790.4	724.1	712.6	706.9	689.5	678.0	663.6	657.8
75°	1456.9	1208.8	854.0	666.5	623.2	611.6	623.2	608.8	605.8	594.3	588.5
77.5°	1197.3	1029.9	735.7	571.2	533.7	513.5	530.8	533.7	536.6	519.2	513.5
80°	972.2	871.2	614.5	473.1	438.5	424.1	435.7	458.7	464.5	438.5	427.0
82.5°	701.0	712.6	496.2	369.3	340.4	328.9	352.0	380.8	386.6	349.0	340.4
85°	588.5	594.3	380.8	262.5	233.6	216.4	253.9	282.7	302.9	265.5	256.8
87.5°	245.2	349.0	219.2	147.1	129.8	112.5	135.6	150.1	181.8	167.4	164.5
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)