

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: P382953

Luminaire Tested: **GLEON-SA3A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13807.4 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

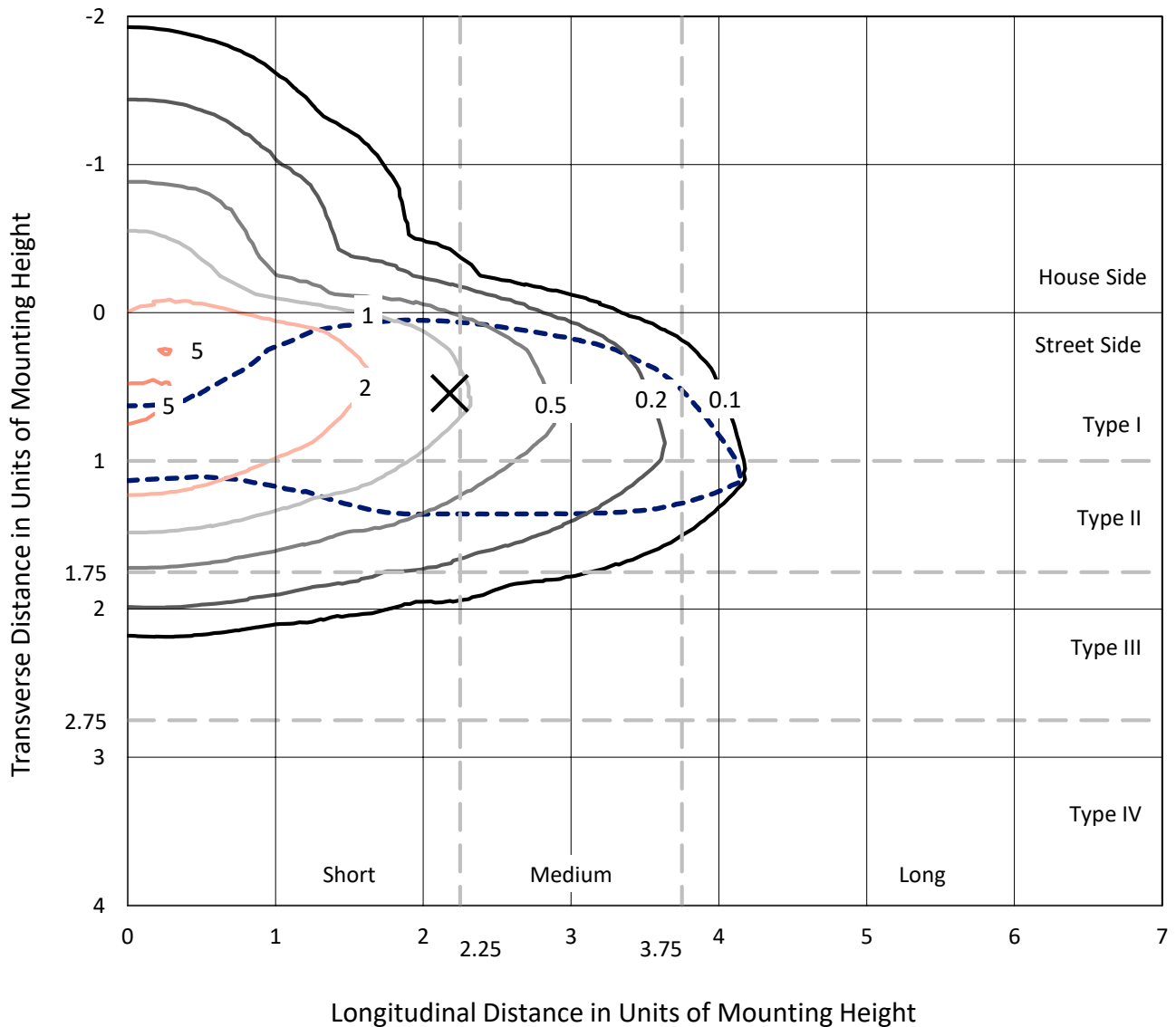
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

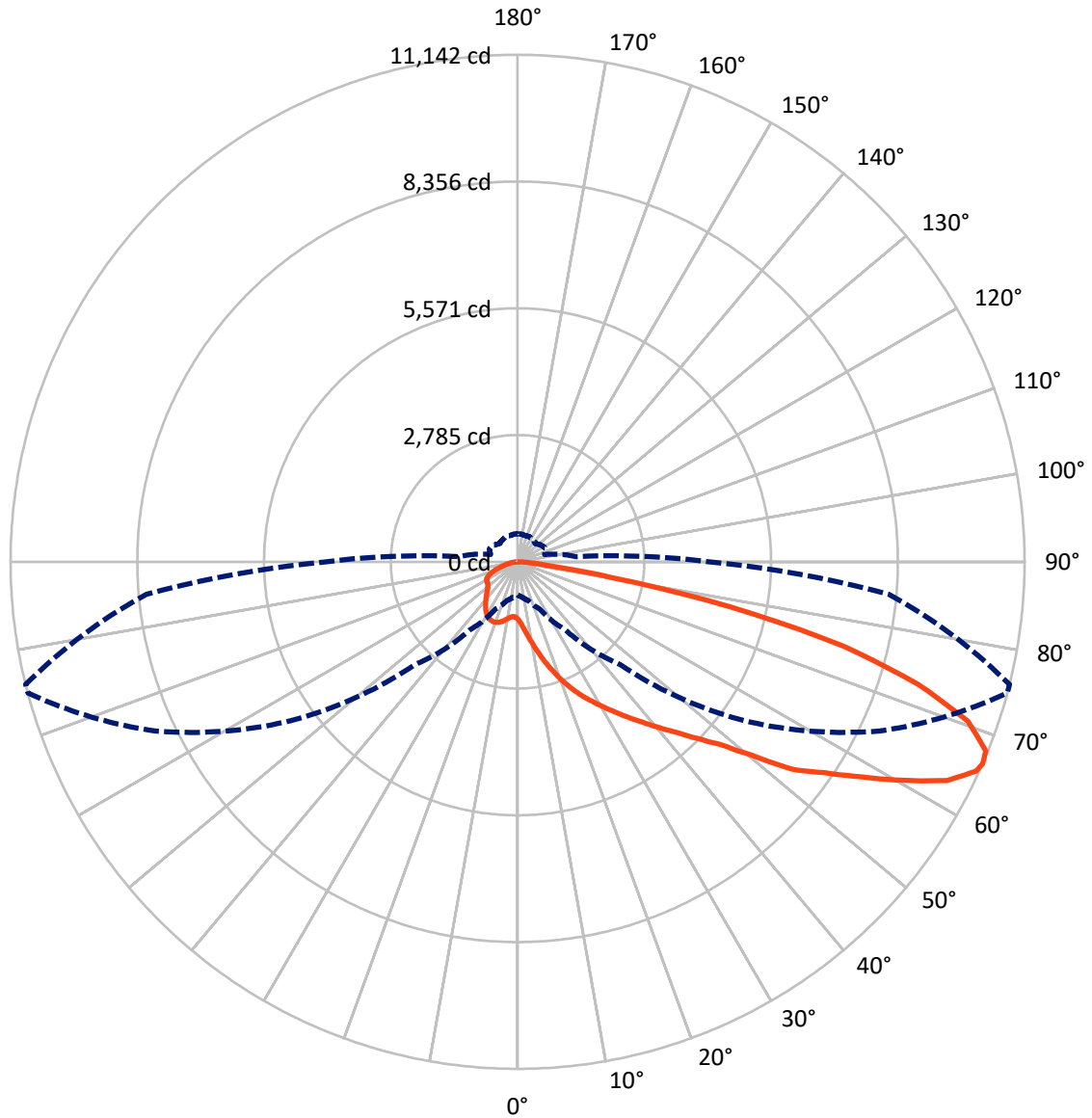
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2323.3	0.0	2323.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11484.1	0.0	11484.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	13807.4	0.0	13807.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.1
10°-20°	602.1	4.4
20°-30°	1170.1	8.5
30°-40°	1909.8	13.8
40°-50°	2609.3	18.9
50°-60°	3039.3	22.0
60°-70°	2724.8	19.7
70°-80°	1377.0	10.0
80°-90°	222.4	1.6
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°	13807.4	100.0
0°-180°	13807.4	100.0

Coefficient of Utilization



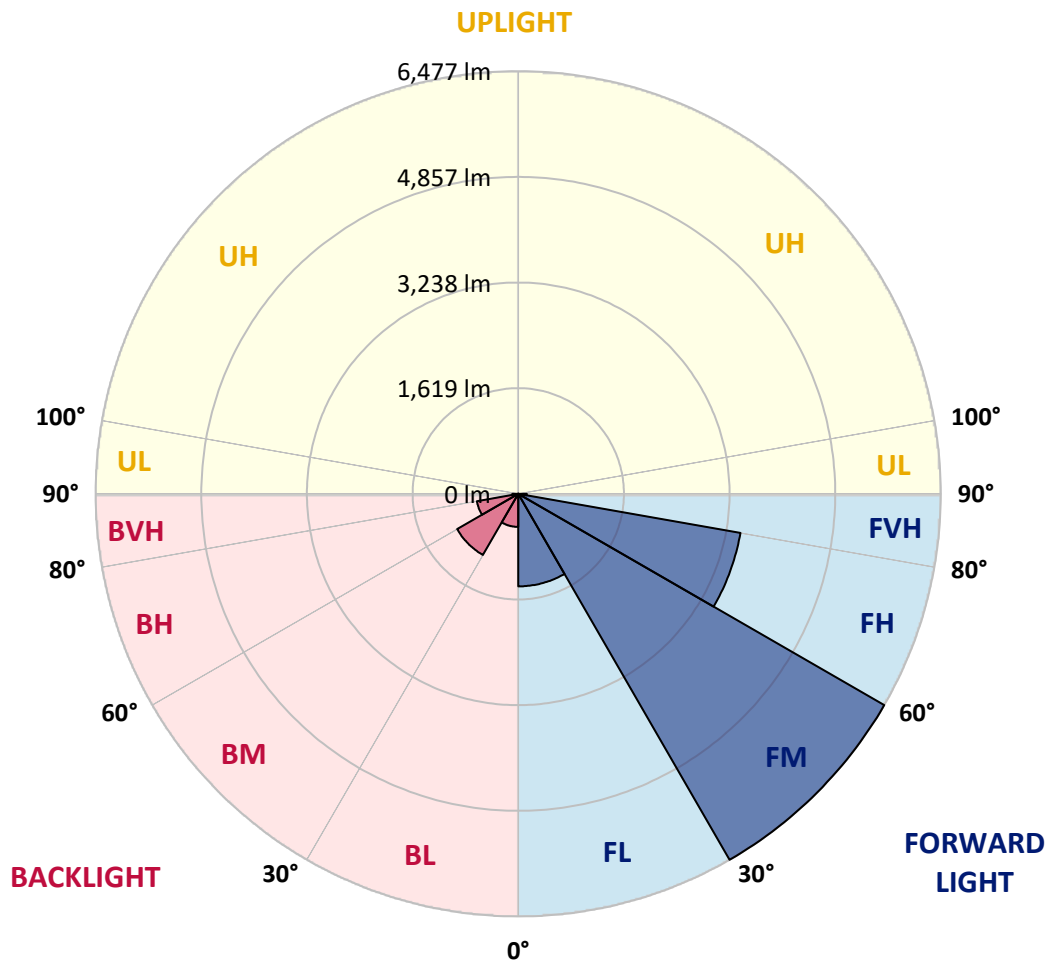
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.0	10.3			
FM (30°-60°)	6476.6	46.9			
FH (60°-80°)	3458.2	25.0			G2/5000
FVH (80°-90°)	131.3	1.0			G2/225
BL (0°-30°)	506.7	3.7	B2/1000		
BM (30°-60°)	1081.9	7.8	B2/2500		
BH (60°-80°)	643.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	91.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1673.9	1648.6	1646.2	1609.2	1600.8	1530.0	1478.0	1423.6	1361.7	1349.5	1300.8
5°	2150.1	2147.8	2115.5	2055.0	2007.7	1886.7	1767.1	1640.6	1501.8	1479.4	1369.7
7.5°	2578.6	2574.8	2550.0	2484.8	2416.3	2267.8	2097.2	1903.2	1678.1	1644.8	1463.0
10°	2903.9	2902.5	2894.0	2846.3	2788.1	2645.6	2457.1	2192.3	1882.9	1837.5	1579.7
12.5°	3155.2	3157.9	3163.5	3146.7	3119.0	2997.6	2804.5	2498.9	2101.4	2056.4	1709.5
15°	3325.3	3333.7	3362.8	3386.7	3401.3	3326.6	3139.7	2812.4	2346.1	2292.2	1853.4
17.5°	3411.0	3420.5	3470.6	3542.8	3609.4	3601.8	3453.2	3111.6	2580.9	2528.9	2008.1
20°	3485.1	3492.2	3548.5	3635.1	3752.7	3804.8	3721.3	3399.3	2838.2	2776.4	2172.2
22.5°	3699.8	3708.7	3725.6	3774.8	3878.9	3974.5	3934.2	3671.7	3074.0	3016.4	2327.8
25°	4114.2	4125.0	4088.4	4046.6	4066.4	4132.9	4140.4	3920.1	3313.1	3247.9	2495.2
27.5°	4613.4	4628.9	4566.5	4459.2	4365.4	4339.6	4330.8	4123.6	3541.4	3465.9	2660.6
30°	5102.3	5129.0	5048.0	4908.7	4736.6	4615.7	4526.2	4322.8	3766.3	3694.1	2816.7
32.5°	5580.0	5569.2	5451.5	5315.6	5114.0	4962.6	4746.0	4536.5	4019.5	3936.5	2971.8
35°	5907.1	5910.9	5801.7	5640.4	5448.2	5332.0	5040.4	4767.1	4277.8	4201.4	3148.1
37.5°	6185.6	6168.2	6044.4	5894.0	5728.6	5678.9	5385.0	5021.2	4557.6	4474.2	3335.6
40°	6278.4	6258.2	6177.1	6068.8	5936.2	5932.0	5765.1	5309.0	4874.0	4791.5	3547.0
42.5°	6222.2	6196.4	6163.1	6133.5	6092.8	6111.5	6122.3	5646.5	5221.8	5129.5	3791.7
45°	6014.4	5975.6	5999.0	6063.3	6151.8	6257.8	6444.8	6020.1	5611.4	5534.0	4079.1
47.5°	5695.3	5660.1	5733.2	5870.6	6111.5	6379.6	6749.9	6432.6	6076.4	5999.4	4488.3
50°	5246.2	5256.5	5361.1	5610.9	5975.1	6435.9	7125.9	6978.7	6752.3	6680.6	5046.6
52.5°	4509.3	4511.2	4805.6	5215.7	5733.2	6406.8	7334.4	7676.7	7675.2	7588.6	5578.1
55°	3824.9	3866.7	4099.6	4644.8	5341.4	6290.6	7480.2	8016.1	8281.4	8179.6	6073.5
57.5°	3156.5	3181.0	3401.7	3949.2	4782.2	5980.7	7629.7	8423.3	8979.7	8915.6	6689.4
60°	2396.2	2433.8	2662.0	3167.8	4066.9	5430.9	7643.8	8848.5	9814.6	9749.9	7377.1
62.5°	1555.3	1620.0	1833.8	2307.6	3201.5	4640.1	7317.6	9126.5	10605.9	10582.8	7987.5
65°	893.9	942.6	1091.2	1456.8	2208.7	3647.3	6541.8	9019.6	11092.9	11079.7	8215.7
66°	730.3	760.8	874.7	1138.6	1822.5	3202.9	6090.9	8794.2	11141.1	11141.6	8189.4
67.5°	584.1	597.7	648.7	815.1	1344.9	2538.7	5285.1	8296.8	11081.1	11097.5	8020.3
70°	483.3	490.3	506.2	546.5	734.1	1530.9	3751.3	7004.5	10478.8	10491.5	7359.8
72.5°	433.6	437.8	443.9	449.6	517.9	855.4	2291.2	5603.4	9187.4	9203.8	6353.3
75°	392.8	395.2	394.2	394.7	434.6	545.1	1184.1	4183.6	7428.7	7395.8	4867.0
77.5°	345.0	347.4	342.6	343.6	384.4	419.1	589.2	2928.7	5013.2	4781.6	2742.2
80°	291.6	293.4	291.6	294.8	334.7	316.4	342.6	1647.6	2216.7	2096.7	975.0
82.5°	220.3	228.3	233.9	247.0	275.6	225.0	229.3	641.7	675.0	642.7	299.0
85°	96.6	117.7	176.2	188.9	207.2	135.0	150.4	261.6	274.7	266.2	108.7
87.5°	25.3	27.7	87.2	109.6	114.9	60.9	78.2	119.1	125.7	119.1	36.1
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°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1275.0	1252.0	1210.7	1174.2	1146.5	1127.8	1109.0	1099.7	1094.0	1088.4	1089.4
5°	1315.8	1269.3	1198.6	1148.4	1120.3	1102.5	1093.1	1089.4	1087.0	1081.4	1081.4
7.5°	1377.2	1311.5	1214.1	1162.5	1140.5	1126.9	1121.2	1119.3	1116.6	1110.0	1111.0
10°	1454.5	1362.7	1246.4	1196.2	1176.1	1161.1	1153.1	1150.3	1145.2	1137.6	1138.6
12.5°	1545.4	1425.9	1289.1	1236.5	1212.2	1192.0	1178.9	1171.0	1162.0	1152.1	1152.6
15°	1644.8	1494.9	1335.0	1272.7	1239.3	1211.2	1190.1	1176.5	1162.5	1150.3	1149.8
17.5°	1745.6	1561.4	1370.1	1292.3	1247.3	1210.3	1181.7	1160.6	1143.3	1128.3	1126.9
20°	1854.3	1621.4	1389.9	1290.5	1232.3	1188.3	1150.3	1124.1	1104.8	1089.8	1087.5
22.5°	1965.0	1677.6	1393.1	1271.3	1199.1	1145.2	1105.3	1076.2	1056.6	1041.1	1035.4
25°	2066.3	1721.2	1379.5	1234.2	1152.6	1094.6	1055.6	1026.1	1010.2	991.9	986.2
27.5°	2158.6	1751.7	1352.3	1186.9	1100.6	1043.4	1006.9	981.6	964.2	950.2	945.4
30°	2241.6	1768.1	1307.8	1130.6	1047.2	995.2	964.2	946.8	931.8	914.0	910.8
32.5°	2320.3	1768.1	1250.6	1069.2	994.2	952.5	934.2	923.4	906.6	889.3	884.5
35°	2399.0	1757.4	1183.2	1005.0	945.4	922.0	921.1	908.4	882.6	859.2	853.1
37.5°	2482.0	1735.3	1107.1	945.0	905.7	908.4	916.4	888.2	851.7	818.5	809.5
40°	2575.7	1704.8	1028.4	893.0	872.3	902.3	903.8	859.2	788.0	757.5	749.5
42.5°	2685.9	1674.4	955.3	847.1	846.1	884.0	879.8	796.4	753.7	738.3	734.1
45°	2830.8	1657.0	885.9	803.5	825.4	854.5	839.0	761.7	743.9	735.0	731.3
47.5°	3059.0	1665.9	822.2	768.7	804.9	825.0	763.1	747.7	735.0	724.2	720.5
50°	3345.0	1660.8	770.6	744.9	781.4	794.1	728.9	729.4	722.8	710.6	705.0
52.5°	3560.1	1620.4	737.3	731.3	760.8	739.2	707.3	711.5	708.3	690.5	684.4
55°	3767.7	1585.8	720.5	726.0	745.8	670.8	682.0	692.3	689.1	671.7	668.9
57.5°	4026.1	1579.2	710.1	727.5	733.1	636.5	657.7	671.3	668.9	661.4	660.0
60°	4342.5	1581.1	700.8	729.9	719.1	611.3	634.7	652.0	653.4	652.0	651.1
62.5°	4516.3	1530.0	677.3	723.3	694.2	589.2	610.8	636.1	636.5	639.4	638.9
65°	4368.7	1377.2	633.7	700.3	652.5	570.9	590.1	617.8	610.8	623.4	623.4
66°	4225.3	1289.1	612.2	685.3	634.7	563.9	583.6	608.4	599.5	616.9	616.9
67.5°	3932.3	1140.5	573.3	653.4	609.3	554.1	576.1	592.9	580.8	606.5	604.7
70°	3397.0	882.2	495.0	581.3	567.7	539.6	565.8	562.0	544.2	583.6	576.1
72.5°	2864.0	670.3	397.5	486.5	504.3	521.2	551.3	522.7	500.1	527.8	511.4
75°	2222.3	503.9	314.0	378.3	426.1	492.7	533.9	477.1	444.8	442.0	433.1
77.5°	1201.4	346.0	248.9	288.8	338.4	457.0	522.2	428.4	379.7	368.4	361.4
80°	475.7	225.0	180.9	218.9	236.7	405.5	494.1	371.7	313.1	301.9	291.1
82.5°	196.4	133.1	116.7	146.7	154.2	346.9	443.4	304.7	241.8	334.7	355.3
85°	84.4	73.1	69.4	75.9	87.2	243.3	353.0	232.5	261.1	233.0	185.2
87.5°	25.3	30.9	29.5	29.1	31.9	58.1	188.0	129.4	191.7	72.7	54.4
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)