

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: P452182

Luminaire Tested: **GALN-SA3A-760-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 13913 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

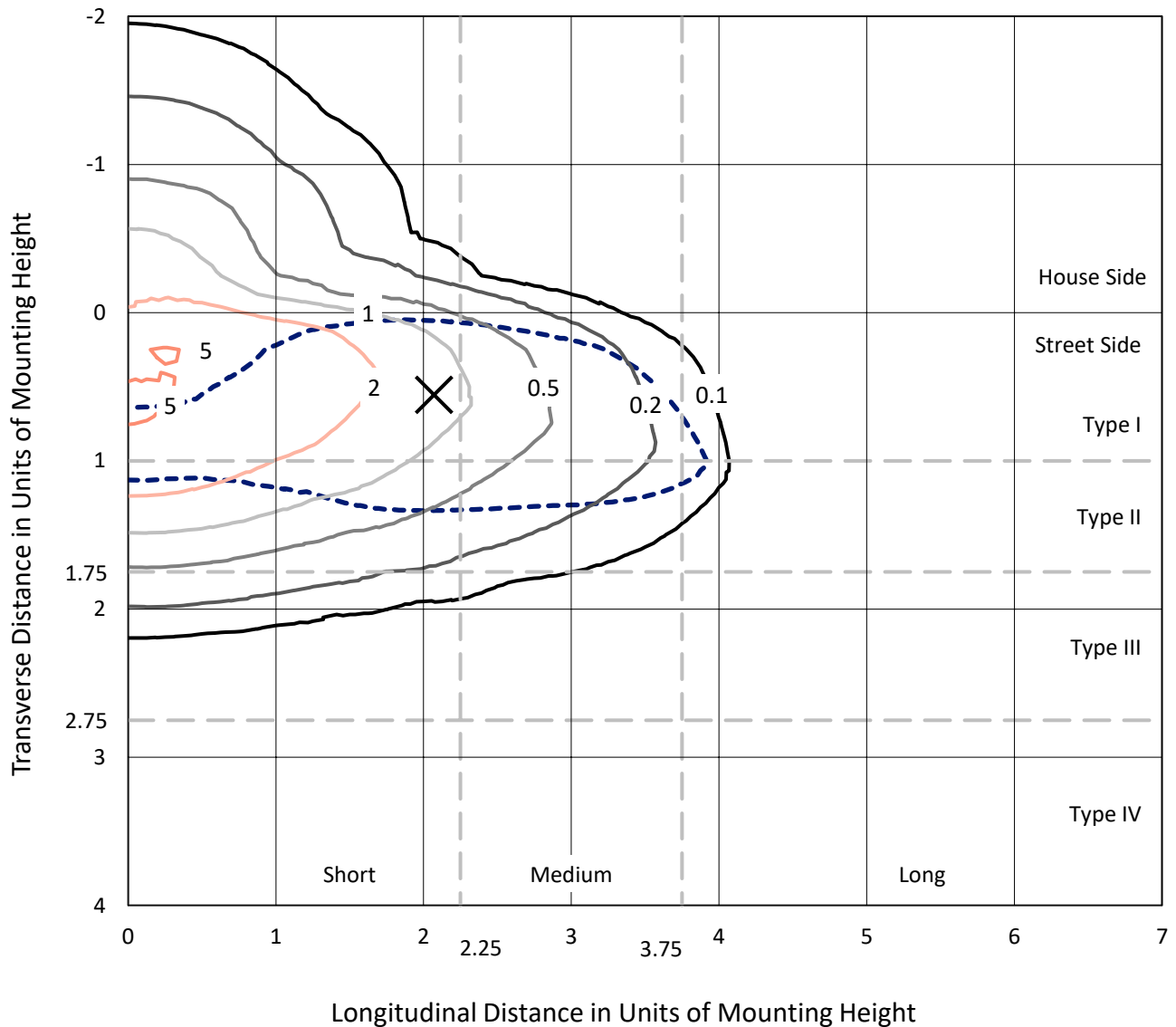
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

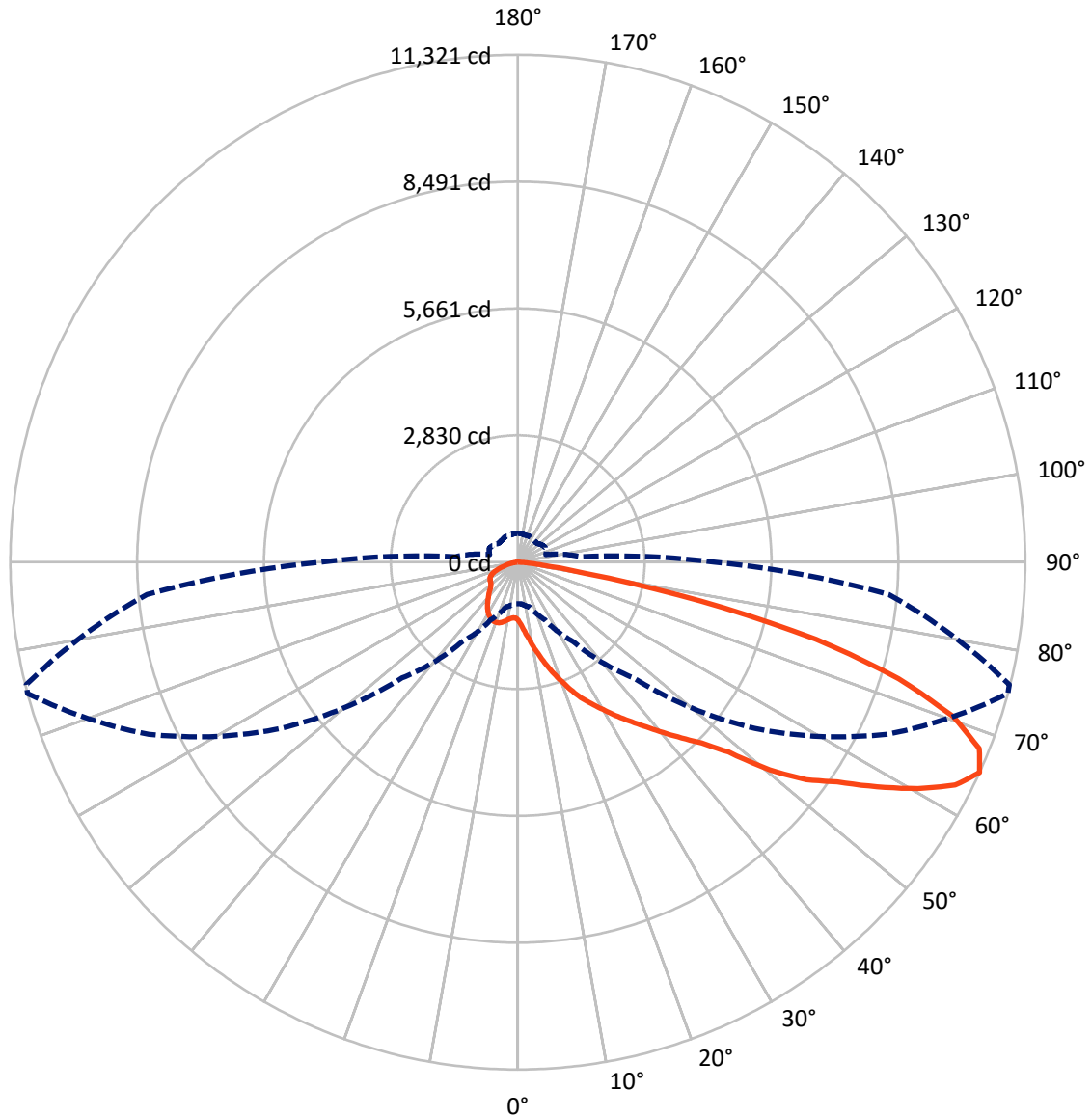
× Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2338.9	0.0	2338.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11574.0	0.0	11574.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	13913.0	0.0	13913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	1.1
10°-20°	615.2	4.4
20°-30°	1188.3	8.5
30°-40°	1930.2	13.9
40°-50°	2655.1	19.1
50°-60°	3134.8	22.5
60°-70°	2746.6	19.7
70°-80°	1311.3	9.4
80°-90°	174.5	1.3
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°	13913.0	100.0
0°-180°	13913.0	100.0

Coefficient of Utilization



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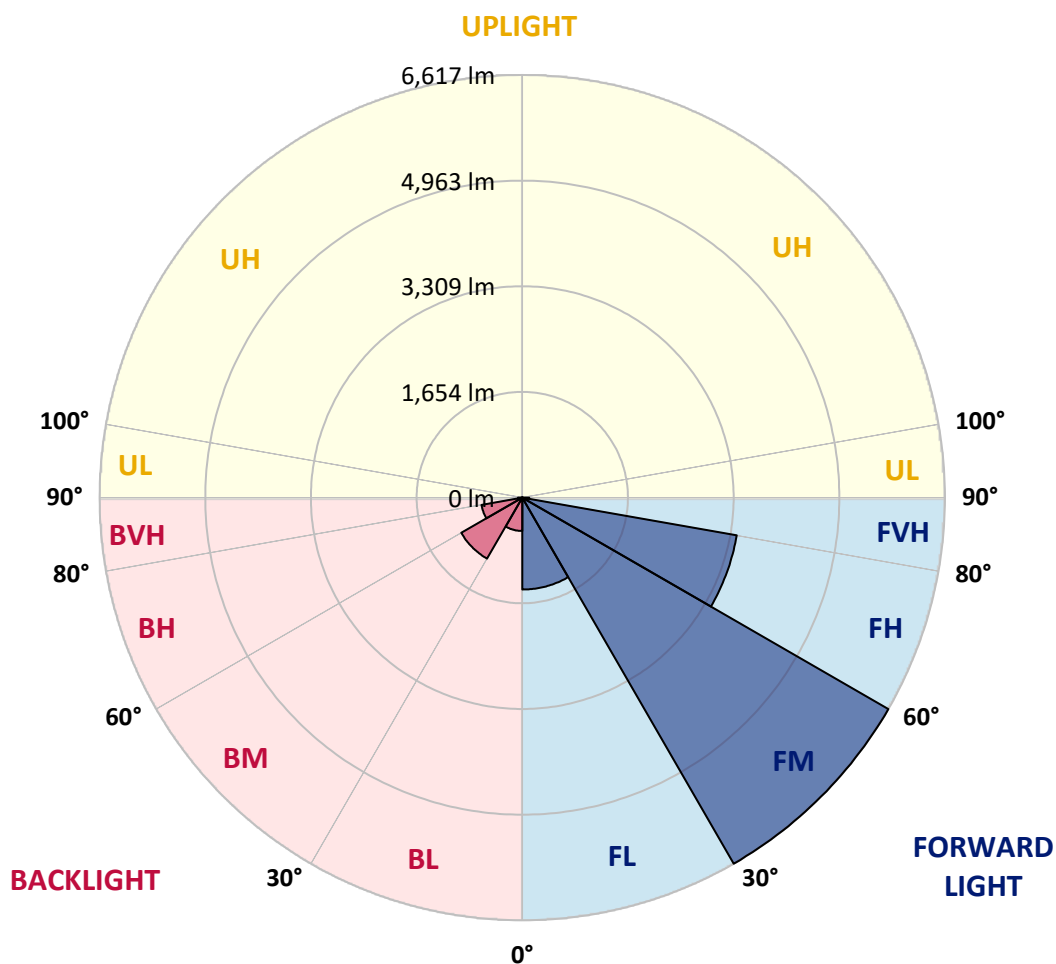
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.4	10.3			
FM	(30°-60°)	6617.3	47.6			
FH	(60°-80°)	3409.3	24.5			G2/5000
FVH	(80°-90°)	109.0	0.8			G2/225
BL	(0°-30°)	522.2	3.8	B2/1000		
BM	(30°-60°)	1102.8	7.9	B2/2500		
BH	(60°-80°)	648.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	65.4	0.5			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°	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7
2.5°	1717.6	1706.2	1694.2	1661.0	1625.5	1585.5	1528.1	1473.1	1399.9	1397.6	1343.3
5°	2193.7	2186.2	2132.6	2101.7	2019.4	1910.0	1817.2	1673.0	1539.5	1523.6	1418.0
7.5°	2631.4	2602.0	2581.6	2525.8	2444.3	2303.9	2124.3	1929.6	1706.2	1685.1	1510.0
10°	2961.2	2958.2	2947.6	2899.3	2838.2	2698.6	2499.4	2220.1	1917.5	1876.0	1621.7
12.5°	3208.0	3210.2	3208.7	3208.0	3164.2	3045.7	2829.9	2535.6	2131.1	2101.7	1750.8
15°	3370.2	3392.8	3401.9	3439.6	3443.4	3364.2	3178.5	2840.5	2371.8	2328.1	1889.6
17.5°	3477.4	3488.7	3530.9	3595.1	3647.2	3632.8	3467.6	3122.7	2617.8	2544.6	2033.7
20°	3580.0	3599.6	3632.1	3719.6	3811.7	3853.9	3737.7	3411.7	2861.6	2814.8	2193.0
22.5°	3793.6	3821.5	3832.8	3877.3	3955.8	4030.5	3977.7	3688.7	3128.7	3065.3	2362.0
25°	4155.0	4184.5	4152.8	4142.2	4167.9	4204.8	4193.5	3949.8	3380.8	3290.2	2522.0
27.5°	4625.9	4629.7	4567.8	4509.0	4445.6	4426.7	4392.0	4181.4	3599.6	3524.2	2682.7
30°	5131.5	5113.4	5010.8	4904.4	4797.2	4691.6	4592.0	4404.8	3843.4	3756.6	2840.5
32.5°	5600.9	5591.1	5477.2	5311.9	5130.8	5031.2	4829.7	4630.5	4104.5	4020.7	3002.7
35°	5952.6	5966.9	5841.6	5661.3	5463.6	5375.3	5121.0	4867.4	4374.6	4283.3	3179.3
37.5°	6202.4	6194.8	6083.9	5927.7	5754.1	5677.1	5461.3	5126.3	4665.2	4577.6	3372.5
40°	6291.4	6286.9	6204.6	6090.7	5980.5	5953.3	5817.5	5405.5	4998.0	4895.3	3604.9
42.5°	6234.8	6244.6	6190.3	6159.3	6139.0	6158.6	6171.4	5771.5	5360.9	5266.6	3857.0
45°	6061.2	6056.0	6048.4	6099.0	6213.7	6342.7	6521.6	6117.1	5755.6	5680.2	4195.0
47.5°	5751.1	5788.8	5807.7	5947.3	6197.8	6503.5	6924.6	6580.4	6328.4	6262.7	4710.4
50°	5317.2	5347.4	5459.0	5707.3	6080.9	6563.8	7318.5	7338.1	7283.8	7160.8	5270.4
52.5°	4639.5	4686.3	4916.5	5371.5	5840.9	6538.9	7556.9	7987.8	8059.5	7967.5	5822.0
55°	3881.1	3946.8	4189.7	4786.7	5510.4	6403.1	7721.4	8364.4	8650.4	8565.1	6353.3
57.5°	3138.5	3208.0	3457.7	4035.8	4933.8	6102.8	7829.4	8784.0	9454.8	9343.9	7014.4
60°	2352.2	2424.6	2639.0	3234.4	4112.8	5515.6	7756.2	9147.7	10258.5	10211.0	7676.2
62.5°	1517.6	1597.6	1784.0	2276.7	3161.2	4713.5	7364.5	9348.4	10954.3	10897.0	8159.1
65°	924.4	933.5	1036.1	1413.4	2163.5	3649.4	6468.7	9082.1	11321.1	11303.7	8306.3
67.5°	597.7	612.0	658.8	846.7	1297.2	2534.8	5172.3	8202.9	11106.7	11100.7	8002.2
70°	504.9	509.4	530.5	571.3	753.9	1537.2	3632.1	6801.5	10292.5	10292.5	7270.9
72.5°	451.3	457.3	464.9	477.7	538.1	870.9	2167.3	5294.5	8886.6	8945.5	6188.8
75°	409.8	408.3	412.8	415.1	458.8	569.0	1120.6	3915.8	6874.7	6757.0	4481.8
77.5°	350.9	353.2	350.9	360.7	405.2	433.2	569.0	2627.6	4166.4	4013.9	2249.6
80°	288.3	292.0	295.8	301.9	346.4	329.0	341.9	1197.6	1541.0	1508.5	695.0
82.5°	216.6	221.9	227.9	242.2	272.4	217.3	215.8	511.6	556.2	509.4	255.8
85°	87.5	103.4	156.2	170.5	171.3	119.2	132.8	213.6	227.1	221.9	100.4
87.5°	20.4	24.1	50.6	76.2	70.2	44.5	49.1	69.4	79.2	73.2	34.0
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°	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7	1292.7
2.5°	1318.4	1291.9	1246.7	1211.9	1187.0	1165.2	1151.6	1143.3	1140.3	1139.5	1140.3
5°	1362.9	1316.1	1244.4	1199.1	1174.2	1159.9	1151.6	1150.8	1151.6	1152.3	1150.1
7.5°	1424.0	1356.8	1263.3	1221.0	1202.1	1191.6	1187.8	1186.3	1187.0	1186.3	1186.3
10°	1505.5	1413.4	1300.2	1256.5	1240.6	1228.5	1222.5	1218.7	1215.7	1212.7	1211.2
12.5°	1595.3	1476.1	1340.2	1298.0	1275.3	1256.5	1242.9	1233.1	1226.3	1219.5	1218.0
15°	1695.7	1542.5	1384.8	1325.9	1293.4	1265.5	1242.1	1226.3	1214.2	1204.4	1203.6
17.5°	1791.5	1605.1	1414.9	1338.7	1291.2	1251.9	1221.0	1199.1	1184.0	1171.2	1169.7
20°	1894.1	1664.7	1428.5	1330.4	1268.5	1221.0	1180.3	1153.8	1136.5	1122.1	1119.9
22.5°	1997.5	1715.3	1427.0	1304.0	1229.3	1173.5	1130.4	1102.5	1082.1	1067.8	1062.5
25°	2096.4	1756.0	1408.2	1261.8	1175.0	1116.9	1073.1	1047.4	1029.3	1012.0	1012.0
27.5°	2185.4	1780.2	1372.7	1210.4	1119.1	1058.0	1023.3	999.9	983.3	972.0	965.2
30°	2273.0	1791.5	1324.4	1145.5	1060.3	1008.2	980.3	966.7	951.6	938.8	937.3
32.5°	2351.4	1789.2	1264.0	1082.1	1004.4	967.4	956.1	945.6	929.7	911.6	907.1
35°	2427.7	1774.2	1192.3	1012.7	957.6	943.3	946.3	931.2	902.5	879.9	876.1
37.5°	2510.7	1747.0	1113.8	956.1	918.4	932.0	939.5	906.3	859.5	824.1	815.8
40°	2606.5	1716.0	1032.3	899.5	887.5	921.4	921.4	860.3	796.1	774.3	768.2
42.5°	2719.0	1690.4	964.4	852.0	861.8	895.8	892.0	799.2	772.7	761.4	758.4
45°	2897.1	1681.3	894.2	810.5	840.7	865.6	834.6	778.0	762.9	753.9	750.9
47.5°	3178.5	1691.9	832.4	779.5	816.5	835.4	770.5	763.7	753.1	740.3	738.8
50°	3439.6	1682.1	788.6	762.2	795.4	799.2	744.1	746.3	740.3	726.0	722.9
52.5°	3653.2	1651.1	760.7	753.1	777.3	735.8	719.2	727.5	725.2	707.1	704.1
55°	3887.9	1632.3	747.1	753.1	765.2	680.7	695.8	707.8	704.8	692.0	691.2
57.5°	4172.4	1636.1	737.3	755.4	753.1	652.8	672.4	686.7	686.0	682.2	682.2
60°	4463.7	1637.6	722.2	754.6	738.8	630.9	648.2	668.6	670.1	672.4	672.4
62.5°	4560.3	1571.9	692.8	741.1	707.1	609.7	625.6	653.5	652.0	658.0	658.8
65°	4379.9	1390.0	649.0	710.1	666.3	594.7	608.2	633.9	625.6	641.4	644.5
67.5°	3986.7	1150.1	581.1	654.3	621.1	578.8	596.9	606.7	591.6	622.6	623.3
70°	3445.7	898.0	495.0	575.0	569.8	562.2	587.9	572.8	551.6	589.4	581.8
72.5°	2881.2	686.0	395.4	470.1	501.1	537.3	572.0	529.0	499.6	510.9	497.3
75°	2164.3	507.1	317.7	368.3	417.3	501.8	557.7	476.2	430.9	420.3	417.3
77.5°	1103.3	331.3	237.7	275.4	313.2	453.5	538.1	414.3	356.9	340.3	332.8
80°	393.9	206.0	167.5	190.2	211.3	390.1	470.1	342.6	277.0	273.9	277.0
82.5°	182.6	132.8	112.4	124.5	125.3	260.3	358.5	255.8	210.5	320.0	270.2
85°	78.5	66.4	63.4	61.9	57.4	116.2	201.5	137.3	214.3	95.8	88.3
87.5°	23.4	26.4	23.4	17.4	12.8	12.8	20.4	7.5	5.3	3.8	3.8
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)