

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: P451660

Luminaire Tested: **GALN-SA2C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451660
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-SA2C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14408 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

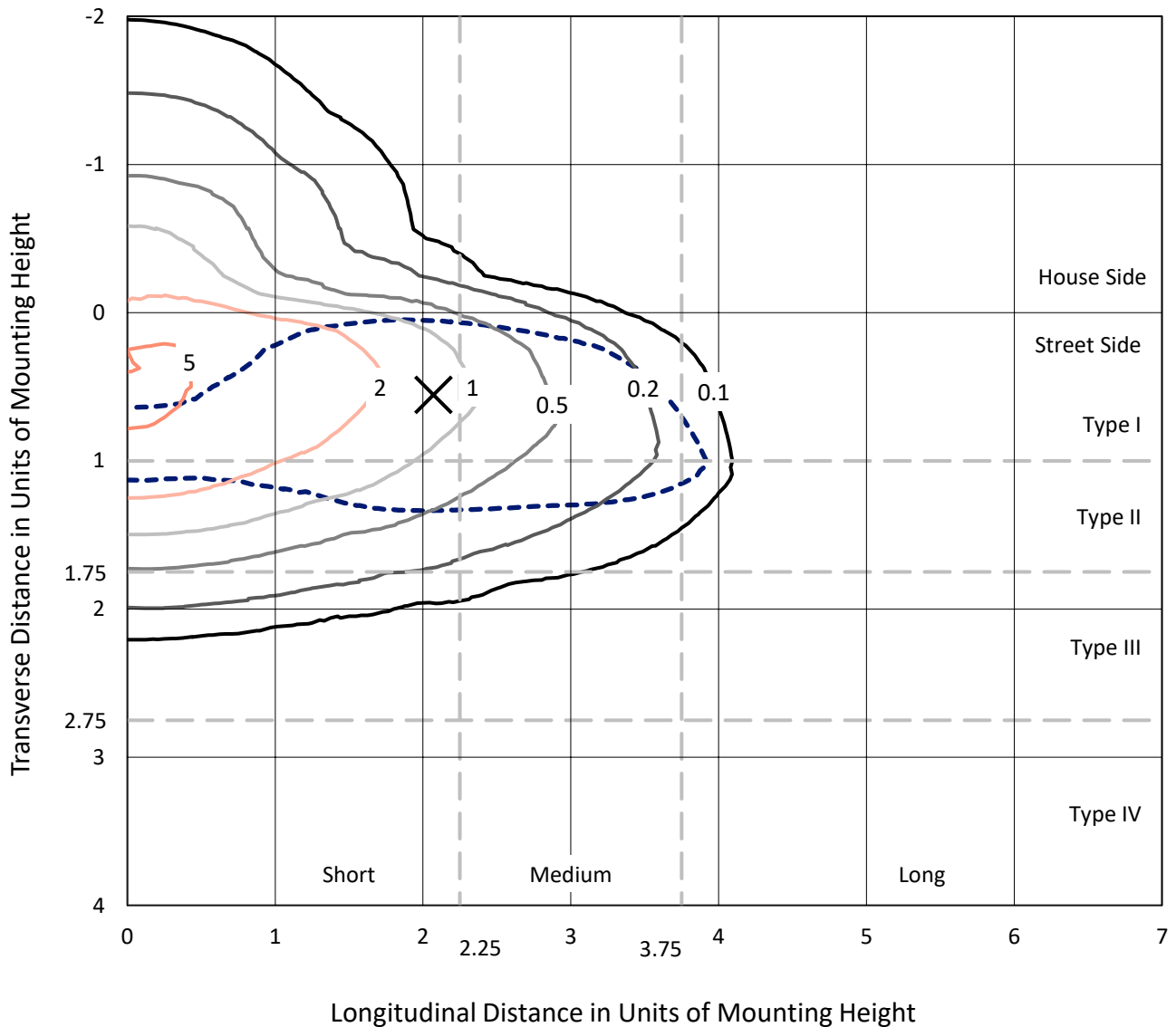
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

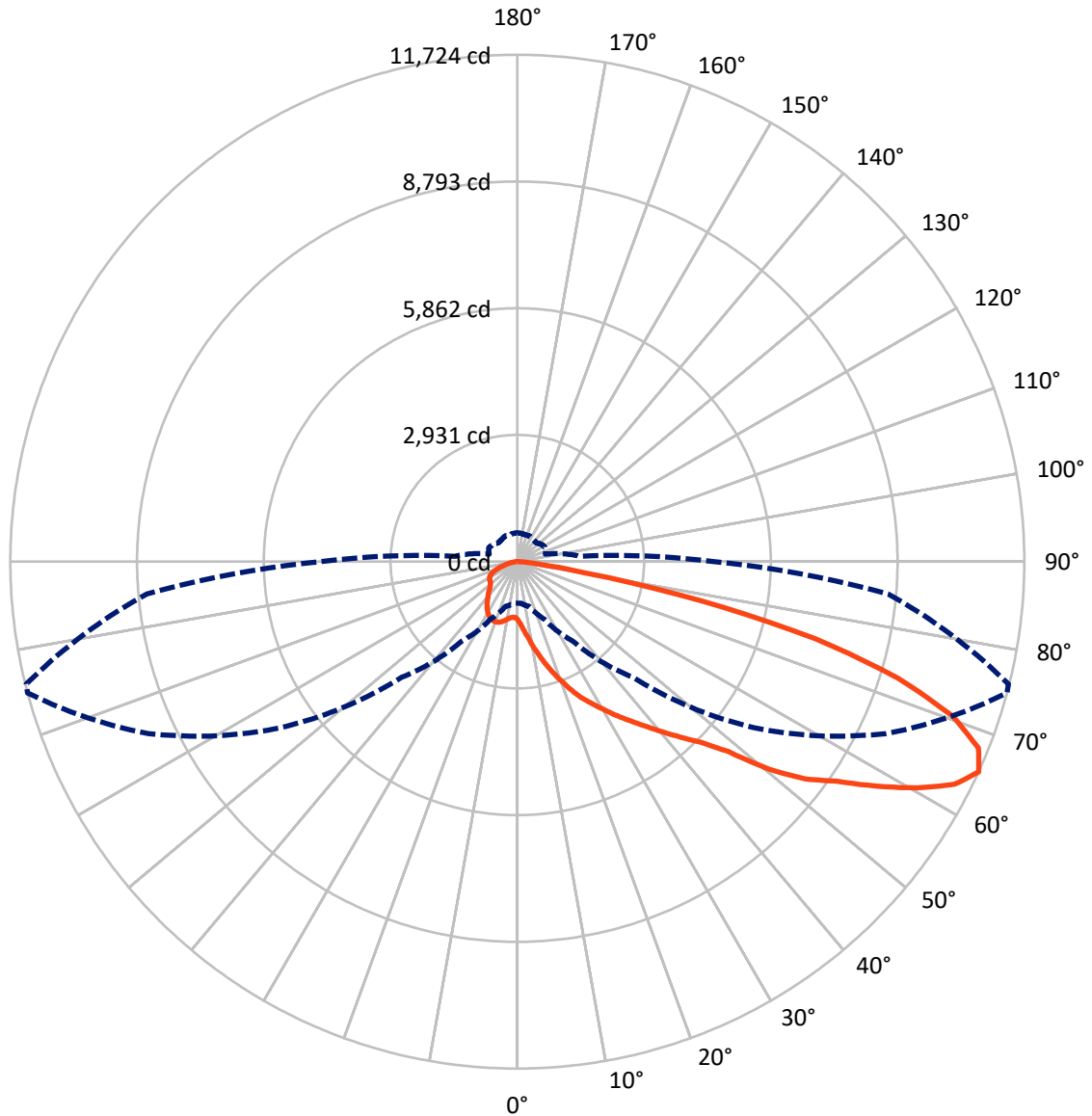
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2422.2	0.0	2422.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11985.8	0.0	11985.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	14408.0	0.0	14408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	1.1
10°-20°	637.1	4.4
20°-30°	1230.6	8.5
30°-40°	1998.9	13.9
40°-50°	2749.6	19.1
50°-60°	3246.3	22.5
60°-70°	2844.3	19.7
70°-80°	1357.9	9.4
80°-90°	180.7	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°	14408.0	100.0
0°-180°	14408.0	100.0

Coefficient of Utilization



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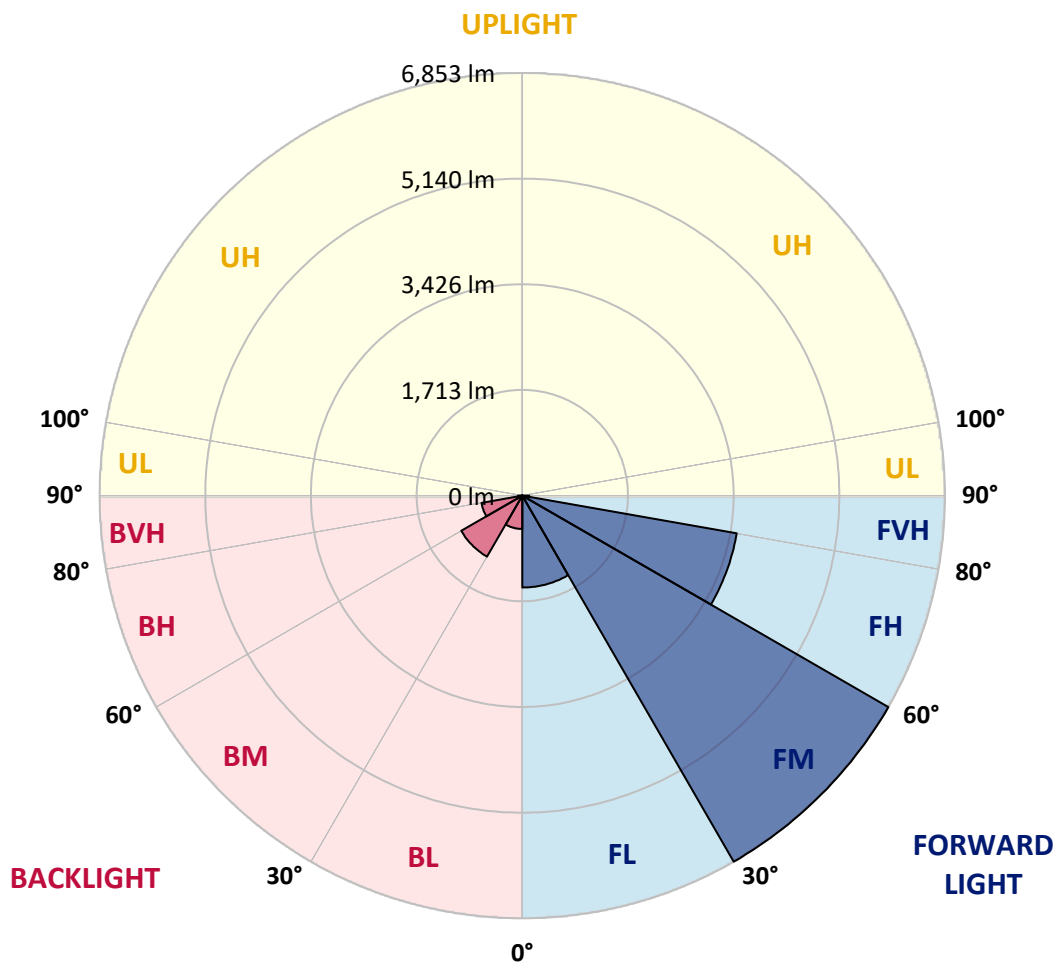
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1489.6	10.3			
FM	(30°-60°)	6852.8	47.6			
FH	(60°-80°)	3530.6	24.5			G2/5000
FVH	(80°-90°)	112.9	0.8			G2/225
BL	(0°-30°)	540.7	3.8	B2/1000		
BM	(30°-60°)	1142.0	7.9	B2/2500		
BH	(60°-80°)	671.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	67.8	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°	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7
2.5°	1778.7	1766.9	1754.4	1720.1	1683.3	1641.9	1582.5	1525.5	1449.7	1447.3	1391.0
5°	2271.8	2264.0	2208.5	2176.4	2091.3	1977.9	1881.8	1732.6	1594.2	1577.8	1468.4
7.5°	2725.0	2694.6	2673.5	2615.6	2531.2	2385.9	2199.9	1998.3	1766.9	1745.1	1563.8
10°	3066.6	3063.4	3052.5	3002.5	2939.2	2794.6	2588.3	2299.1	1985.8	1942.8	1679.4
12.5°	3322.1	3324.4	3322.9	3322.1	3276.8	3154.1	2930.6	2625.8	2206.9	2176.4	1813.0
15°	3490.1	3513.6	3522.9	3562.0	3565.9	3483.9	3291.6	2941.5	2456.2	2410.9	1956.8
17.5°	3601.1	3612.8	3656.6	3723.0	3776.9	3762.1	3590.9	3233.8	2711.0	2635.2	2106.1
20°	3707.4	3727.7	3761.3	3851.9	3947.3	3991.0	3870.7	3533.1	2963.4	2914.9	2271.0
22.5°	3928.5	3957.4	3969.2	4015.3	4096.5	4173.9	4119.2	3819.9	3240.0	3174.4	2446.1
25°	4302.9	4333.3	4300.5	4289.6	4316.1	4354.4	4342.7	4090.3	3501.1	3407.3	2611.7
27.5°	4790.5	4794.4	4730.3	4669.4	4603.7	4584.2	4548.2	4330.2	3727.7	3649.5	2778.2
30°	5314.1	5295.3	5189.1	5078.9	4967.9	4858.5	4755.3	4561.5	3980.1	3890.2	2941.5
32.5°	5800.2	5790.0	5672.0	5500.9	5313.3	5210.2	5001.5	4795.2	4250.5	4163.8	3109.5
35°	6164.4	6179.2	6049.5	5862.7	5658.0	5566.5	5303.2	5040.6	4530.3	4435.7	3292.4
37.5°	6423.0	6415.2	6300.3	6138.6	5958.8	5879.1	5655.6	5308.6	4831.1	4740.5	3492.5
40°	6515.2	6510.6	6425.4	6307.4	6193.3	6165.1	6024.5	5597.8	5175.8	5069.5	3733.2
42.5°	6456.6	6466.8	6410.5	6378.5	6357.4	6377.7	6391.0	5976.8	5551.7	5454.0	3994.2
45°	6276.9	6271.4	6263.6	6316.0	6434.8	6568.4	6753.6	6334.7	5960.4	5882.2	4344.3
47.5°	5955.7	5994.8	6014.3	6158.9	6418.3	6734.8	7170.9	6814.6	6553.5	6485.6	4878.0
50°	5506.3	5537.6	5653.3	5910.4	6297.2	6797.4	7578.8	7599.2	7542.9	7415.5	5457.9
52.5°	4804.6	4853.0	5091.4	5562.6	6048.7	6771.6	7825.8	8272.0	8346.3	8250.9	6029.2
55°	4019.2	4087.2	4338.8	4957.0	5706.4	6630.9	7996.2	8662.0	8958.2	8869.9	6579.3
57.5°	3250.2	3322.1	3580.8	4179.4	5109.4	6319.9	8107.9	9096.5	9791.2	9676.4	7263.9
60°	2435.9	2510.9	2732.9	3349.4	4259.1	5711.9	8032.1	9473.2	10623.5	10574.3	7949.3
62.5°	1571.6	1654.4	1847.4	2357.7	3273.6	4881.2	7626.5	9681.0	11344.0	11284.7	8449.4
65°	957.3	966.7	1073.0	1463.7	2240.5	3779.3	6698.9	9405.2	11723.8	11705.9	8601.8
67.5°	618.9	633.8	682.2	876.8	1343.4	2625.0	5356.3	8494.8	11501.9	11495.7	8286.9
70°	522.8	527.5	549.4	591.6	780.7	1591.9	3761.3	7043.5	10658.7	10658.7	7529.6
72.5°	467.3	473.6	481.4	494.7	557.2	901.8	2244.4	5482.9	9202.8	9263.7	6409.0
75°	424.3	422.8	427.5	429.8	475.1	589.2	1160.5	4055.1	7119.3	6997.4	4641.2
77.5°	363.4	365.7	363.4	373.6	419.7	448.6	589.2	2721.1	4314.6	4156.7	2329.6
80°	298.5	302.4	306.3	312.6	358.7	340.7	354.0	1240.2	1595.8	1562.2	719.7
82.5°	224.3	229.8	236.0	250.9	282.1	225.1	223.5	529.8	576.0	527.5	264.9
85°	90.7	107.1	161.8	176.6	177.4	123.5	137.5	221.2	235.2	229.8	103.9
87.5°	21.1	25.0	52.4	78.9	72.7	46.1	50.8	71.9	82.1	75.8	35.2
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°	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7	1338.7
2.5°	1365.3	1337.9	1291.0	1255.1	1229.3	1206.6	1192.5	1184.0	1180.8	1180.0	1180.8
5°	1411.4	1362.9	1288.7	1241.8	1216.0	1201.1	1192.5	1191.8	1192.5	1193.3	1191.0
7.5°	1474.7	1405.1	1308.2	1264.4	1244.9	1234.0	1230.1	1228.5	1229.3	1228.5	1228.5
10°	1559.1	1463.7	1346.5	1301.2	1284.8	1272.3	1266.0	1262.1	1259.0	1255.8	1254.3
12.5°	1652.1	1528.6	1387.9	1344.2	1320.7	1301.2	1287.1	1276.9	1269.9	1262.9	1261.3
15°	1756.0	1597.4	1434.0	1373.1	1339.5	1310.6	1286.3	1269.9	1257.4	1247.3	1246.5
17.5°	1855.2	1662.2	1465.3	1386.4	1337.1	1296.5	1264.4	1241.8	1226.2	1212.9	1211.3
20°	1961.5	1724.0	1479.4	1377.8	1313.7	1264.4	1222.2	1194.9	1176.9	1162.1	1159.7
22.5°	2068.6	1776.3	1477.8	1350.4	1273.0	1215.2	1170.7	1141.8	1120.7	1105.8	1100.3
25°	2171.0	1818.5	1458.3	1306.6	1216.8	1156.6	1111.3	1084.7	1065.9	1048.0	1048.0
27.5°	2263.2	1843.5	1421.5	1253.5	1158.9	1095.6	1059.7	1035.5	1018.3	1006.6	999.5
30°	2353.8	1855.2	1371.5	1186.3	1098.0	1044.1	1015.2	1001.1	985.5	972.2	970.6
32.5°	2435.1	1852.9	1309.0	1120.7	1040.2	1001.9	990.1	979.2	962.8	944.0	939.3
35°	2514.0	1837.3	1234.7	1048.8	991.7	976.9	980.0	964.4	934.7	911.2	907.3
37.5°	2600.0	1809.1	1153.5	990.1	951.1	965.1	972.9	938.6	890.1	853.4	844.8
40°	2699.3	1777.1	1069.1	931.5	919.0	954.2	954.2	890.9	824.5	801.8	795.6
42.5°	2815.7	1750.5	998.7	882.3	892.5	927.6	923.7	827.6	800.2	788.5	785.4
45°	3000.1	1741.2	926.1	839.3	870.6	896.4	864.3	805.7	790.1	780.7	777.6
47.5°	3291.6	1752.1	862.0	807.3	845.6	865.1	797.9	790.9	779.9	766.6	765.1
50°	3562.0	1741.9	816.7	789.3	823.7	827.6	770.5	772.9	766.6	751.8	748.7
52.5°	3783.2	1709.9	787.7	779.9	804.9	761.9	744.8	753.4	751.0	732.3	729.1
55°	4026.2	1690.4	773.7	779.9	792.4	704.9	720.5	733.0	729.9	716.6	715.8
57.5°	4320.8	1694.3	763.5	782.3	779.9	676.0	696.3	711.2	710.4	706.5	706.5
60°	4622.5	1695.8	747.9	781.5	765.1	653.3	671.3	692.4	694.0	696.3	696.3
62.5°	4722.5	1627.8	717.4	767.4	732.3	631.4	647.9	676.8	675.2	681.5	682.2
65°	4535.7	1439.5	672.1	735.4	690.1	615.8	629.9	656.4	647.9	664.3	667.4
67.5°	4128.6	1191.0	601.7	677.5	643.2	599.4	618.2	628.3	612.7	644.7	645.5
70°	3568.3	930.0	512.7	595.5	590.0	582.2	608.8	593.1	571.3	610.3	602.5
72.5°	2983.7	710.4	409.5	486.9	518.9	556.4	592.4	547.8	517.3	529.1	515.0
75°	2241.3	525.2	329.0	381.4	432.2	519.7	577.5	493.1	446.2	435.3	432.2
77.5°	1142.5	343.1	246.2	285.2	324.3	469.7	557.2	429.0	369.6	352.5	344.6
80°	407.9	213.3	173.5	196.9	218.8	404.0	486.9	354.8	286.8	283.7	286.8
82.5°	189.1	137.5	116.4	128.9	129.7	269.6	371.2	264.9	218.0	331.3	279.8
85°	81.3	68.8	65.6	64.1	59.4	120.3	208.7	142.2	221.9	99.2	91.4
87.5°	24.2	27.4	24.2	18.0	13.3	13.3	21.1	7.8	5.5	3.9	3.9
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)