

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: P451124

Luminaire Tested: **GALN-SA2A-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6295 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

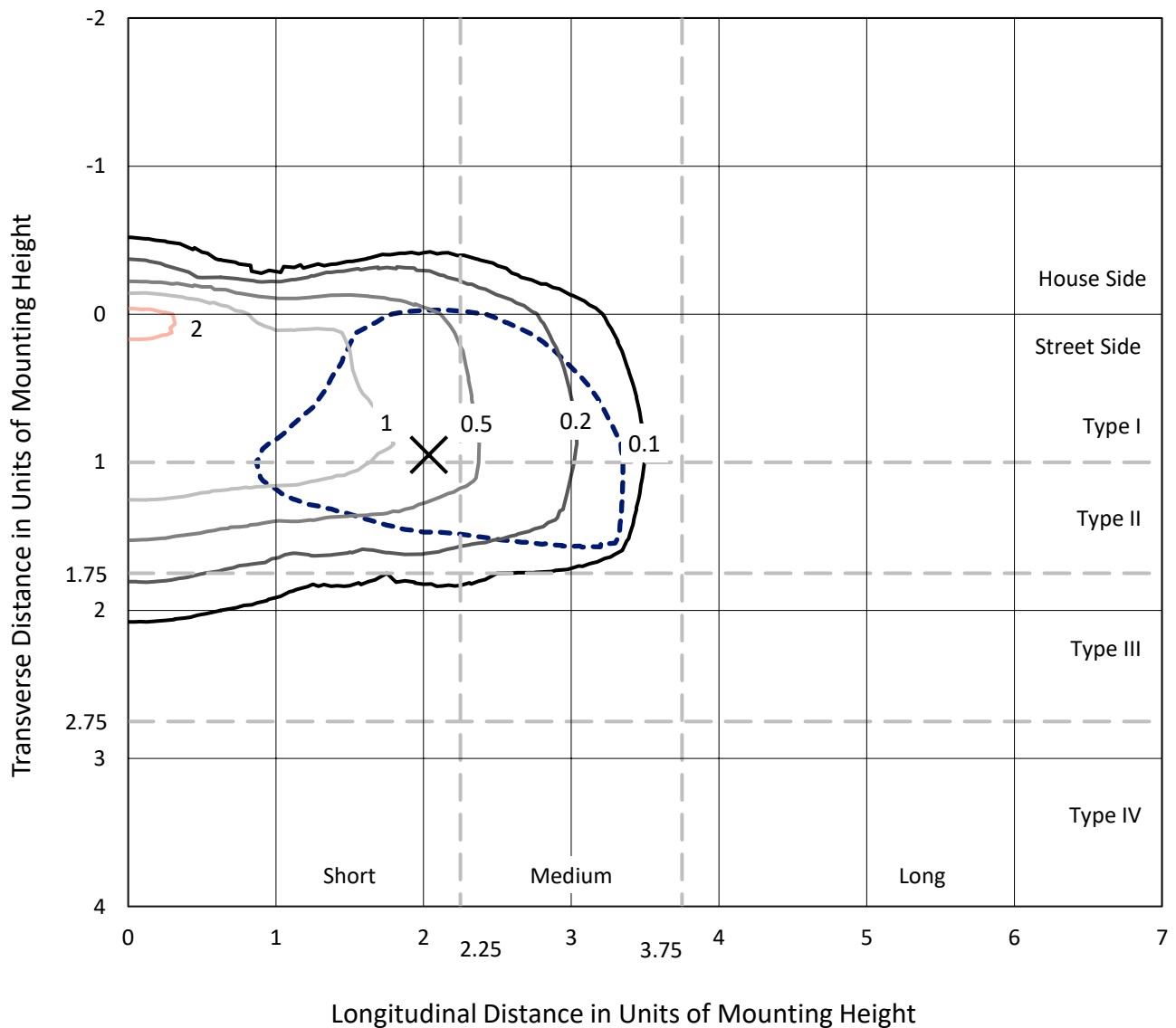
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

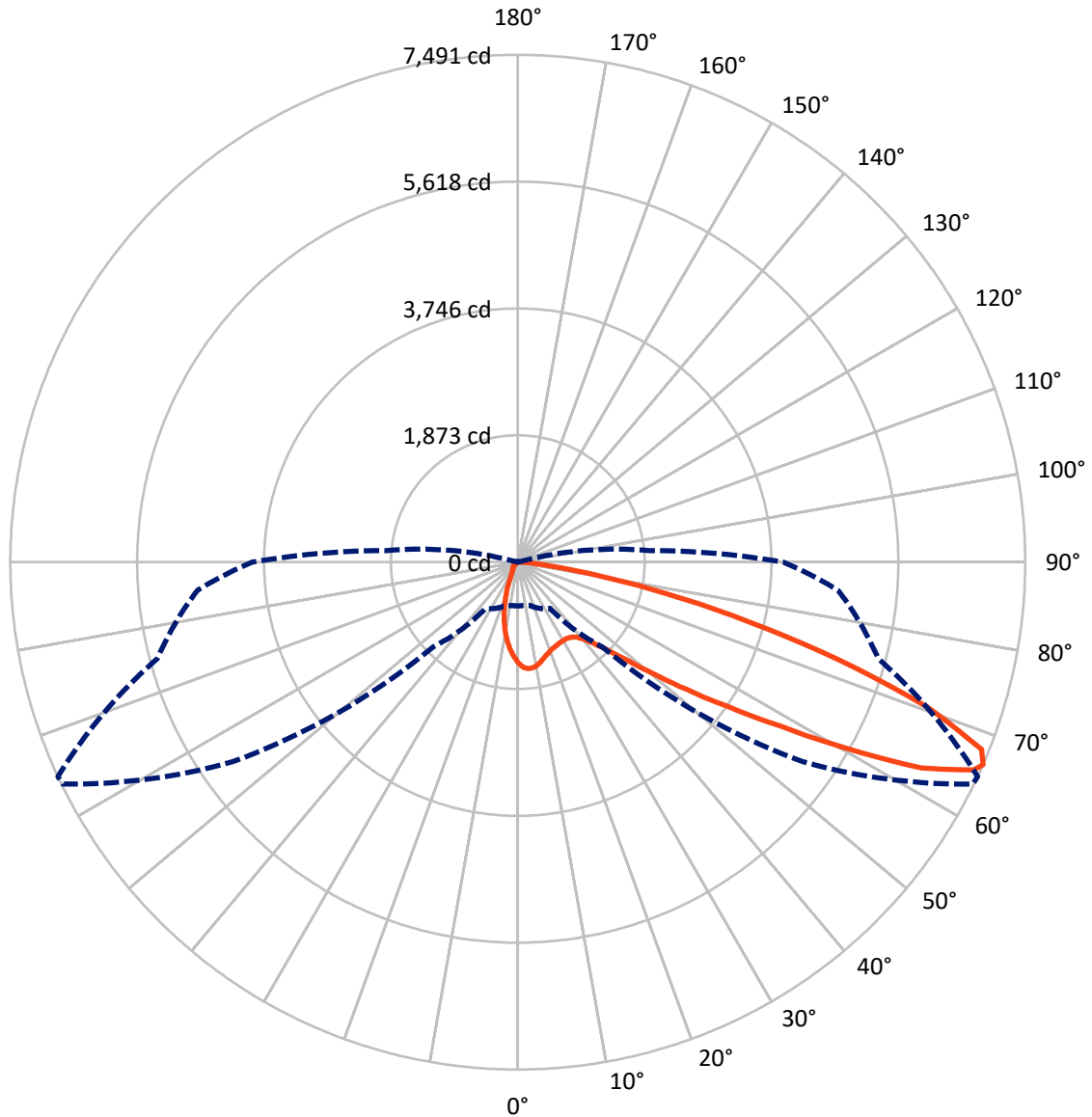
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	651.0	0.0	651.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5644.0	0.0	5644.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	6295.0	0.0	6295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.9
10°-20°	266.0	4.2
20°-30°	381.1	6.1
30°-40°	556.6	8.8
40°-50°	933.3	14.8
50°-60°	1557.5	24.7
60°-70°	1653.2	26.3
70°-80°	748.7	11.9
80°-90°	76.6	1.2
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°	6295.0	100.0
0°-180°	6295.0	100.0

Coefficient of Utilization



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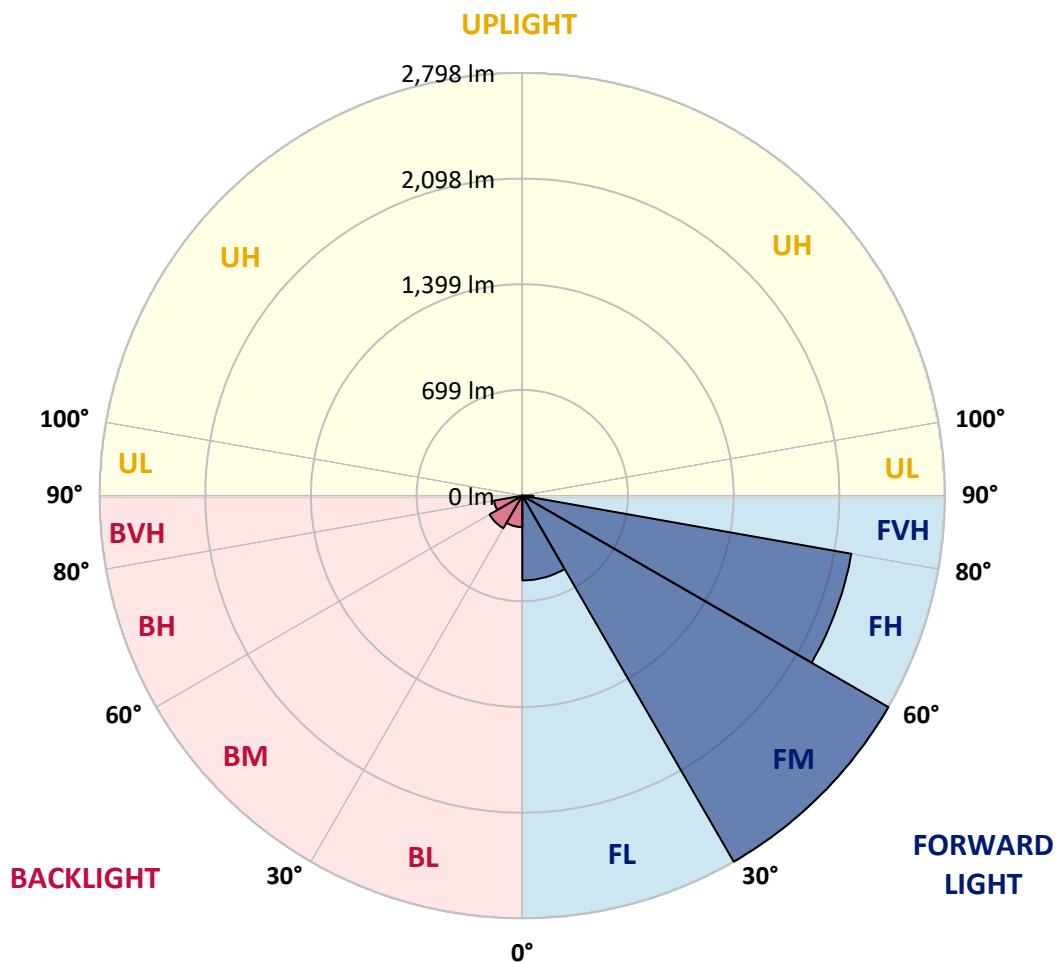
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.9	8.9			
FM (30°-60°)	2797.6	44.4			
FH (60°-80°)	2211.3	35.1			G2/5000
FVH (80°-90°)	74.2	1.2			G1/100
BL (0°-30°)	208.2	3.3	B1/500		
BM (30°-60°)	249.7	4.0	B1/1000		
BH (60°-80°)	190.7	3.0	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8
2.5°	1573.1	1574.8	1577.0	1579.9	1582.1	1575.7	1566.8	1556.6	1554.4	1532.7	1506.4
5°	1489.0	1491.5	1510.2	1520.4	1543.4	1564.2	1577.4	1579.1	1578.2	1557.8	1515.7
7.5°	1369.1	1376.3	1394.6	1412.4	1455.4	1494.9	1541.7	1574.4	1576.5	1571.0	1518.7
10°	1271.7	1276.4	1285.7	1321.0	1356.7	1417.1	1482.6	1544.2	1549.3	1571.4	1516.2
12.5°	1195.6	1202.4	1213.9	1241.1	1284.0	1341.0	1415.4	1498.3	1508.9	1563.4	1508.9
15°	1142.4	1145.8	1157.3	1184.1	1225.8	1278.5	1353.7	1450.3	1459.6	1552.7	1507.7
17.5°	1117.4	1121.2	1129.3	1150.5	1185.0	1233.8	1307.4	1411.6	1423.5	1545.9	1512.3
20°	1124.2	1127.6	1128.0	1139.0	1162.4	1203.7	1273.4	1375.4	1390.7	1541.7	1520.0
22.5°	1162.8	1163.3	1158.2	1153.1	1161.1	1190.9	1252.6	1352.5	1368.2	1540.8	1528.9
25°	1220.7	1221.9	1213.4	1195.6	1179.4	1194.7	1247.9	1337.6	1351.6	1538.7	1534.4
27.5°	1300.6	1300.2	1297.6	1267.9	1221.9	1211.7	1251.7	1329.5	1341.4	1532.7	1536.6
30°	1412.4	1409.0	1403.5	1369.9	1299.7	1253.0	1267.9	1324.4	1335.5	1524.2	1531.0
32.5°	1522.5	1535.3	1534.4	1502.6	1415.0	1326.5	1301.4	1331.2	1339.3	1518.7	1523.0
35°	1650.9	1650.5	1683.3	1671.3	1568.9	1420.5	1358.8	1353.7	1360.1	1522.5	1519.1
37.5°	1770.0	1781.0	1832.1	1844.4	1750.9	1553.2	1440.1	1402.2	1404.3	1548.5	1528.5
40°	1918.4	1939.6	2015.7	2057.0	1974.5	1750.0	1560.0	1491.1	1491.5	1612.2	1563.8
42.5°	2109.7	2143.3	2214.3	2283.2	2239.0	1983.0	1739.8	1631.8	1631.0	1724.5	1644.6
45°	2342.3	2365.7	2446.4	2555.7	2527.6	2308.3	2001.7	1849.9	1838.9	1908.6	1787.8
47.5°	2542.9	2574.8	2656.9	2781.5	2909.0	2705.4	2314.6	2149.7	2142.4	2201.5	2033.6
50°	2630.5	2658.6	2744.9	2919.7	3228.8	3226.6	2780.6	2587.2	2574.8	2606.7	2413.7
52.5°	2534.4	2560.8	2648.0	2865.7	3379.3	3861.8	3455.8	3136.1	3121.2	3080.4	2867.8
55°	2205.4	2227.0	2355.9	2605.9	3321.4	4285.3	4386.1	3814.2	3756.4	3597.8	3381.8
57.5°	1756.0	1744.9	1824.8	2115.2	2982.2	4427.3	5341.0	4659.0	4555.7	4045.1	3816.8
60°	1216.8	1250.9	1283.2	1474.5	2242.4	4181.1	5935.0	5721.1	5585.1	4485.1	4233.4
62.5°	894.6	917.1	938.4	1026.8	1409.9	3338.4	6040.0	6812.1	6691.3	4952.4	4631.0
65°	707.5	709.2	717.7	804.8	929.0	2170.9	5535.3	7427.3	7396.3	5402.2	4792.1
66°	644.6	645.0	658.2	751.7	833.8	1767.9	5131.0	7474.1	7491.1	5510.2	4744.9
67.5°	563.4	561.7	580.8	675.6	759.4	1274.7	4407.3	7284.5	7385.2	5593.1	4575.3
70°	436.7	434.5	457.9	566.8	699.4	850.3	2929.4	6254.7	6417.1	5423.5	4048.1
72.5°	290.8	292.5	332.5	447.3	667.5	748.7	1762.3	4758.1	4987.7	4478.8	3184.5
75°	169.6	172.6	218.1	332.5	579.5	713.9	997.5	3392.9	3539.6	3092.7	1983.8
77.5°	88.9	90.1	122.0	219.4	444.3	662.8	664.5	2167.5	2236.4	1503.0	785.3
80°	47.2	45.9	65.5	132.2	305.7	582.1	539.1	1147.5	1193.0	446.4	198.6
82.5°	17.9	19.6	34.9	86.7	180.7	417.9	464.3	507.2	491.5	98.2	83.3
85°	3.4	4.3	14.9	51.4	91.0	174.7	342.3	248.7	230.4	37.0	48.0
87.5°	0.4	0.9	4.3	12.3	13.2	59.1	101.2	68.9	59.5	13.6	20.0
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°	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8	1492.8
2.5°	1493.6	1482.1	1443.9	1406.0	1367.4	1332.5	1308.7	1270.0	1260.2	1246.2	1238.1
5°	1490.7	1463.9	1390.3	1310.0	1235.1	1154.3	1092.7	1033.2	1001.3	985.1	979.2
7.5°	1482.1	1439.6	1324.8	1199.0	1079.1	958.3	853.3	773.4	721.9	686.7	662.8
10°	1465.1	1406.5	1248.7	1075.7	894.6	735.1	602.0	500.9	422.6	398.0	398.8
12.5°	1447.7	1369.5	1163.7	938.8	714.3	513.2	372.0	292.1	254.7	242.3	239.8
15°	1431.6	1334.2	1080.4	806.1	531.9	332.5	239.8	211.7	201.5	199.4	199.0
17.5°	1423.0	1301.4	991.5	654.3	371.2	225.8	192.2	184.5	181.5	179.4	178.6
20°	1415.8	1273.0	906.5	512.3	253.8	184.9	172.2	165.0	159.9	157.7	156.5
22.5°	1410.7	1243.6	818.5	396.7	194.3	164.1	152.6	143.3	136.1	133.5	131.8
25°	1403.1	1211.3	729.6	290.0	163.7	145.8	132.7	121.6	112.2	107.6	106.7
27.5°	1392.0	1174.7	632.2	214.7	146.3	129.7	113.5	99.9	90.6	85.5	85.9
30°	1374.2	1136.5	534.9	170.5	132.2	113.1	95.7	82.5	73.6	69.7	69.3
32.5°	1352.9	1090.1	445.6	146.3	119.5	98.2	79.9	68.5	61.6	58.7	58.2
35°	1332.9	1043.4	354.6	131.4	106.3	84.6	67.2	57.4	52.3	49.7	50.2
37.5°	1321.9	1001.7	276.4	119.5	95.7	72.7	57.8	49.3	44.6	42.5	42.1
40°	1329.1	967.7	219.8	108.8	83.8	62.5	49.7	42.5	37.8	34.9	34.9
42.5°	1363.1	952.8	177.3	98.6	72.7	54.0	43.4	36.6	31.5	28.5	28.9
45°	1466.8	968.5	148.4	89.3	62.5	46.8	37.4	30.2	25.5	23.4	23.0
47.5°	1639.0	1027.6	128.4	79.5	53.6	40.0	31.5	25.1	20.4	18.7	18.3
50°	1940.1	1149.7	113.5	69.7	45.5	34.0	25.9	20.0	16.2	14.5	14.5
52.5°	2354.2	1415.8	102.9	58.7	38.3	28.9	21.3	16.2	12.8	11.5	11.1
55°	2787.0	1696.4	97.4	49.3	31.9	23.8	17.0	12.8	9.8	8.5	8.1
57.5°	3203.2	1916.7	91.0	40.0	25.5	18.3	13.2	9.8	6.8	6.0	5.5
60°	3602.5	2094.8	77.4	31.9	20.0	13.2	9.8	6.8	4.7	3.8	3.8
62.5°	3959.6	2198.6	60.8	25.5	15.3	9.4	6.4	5.1	3.4	2.6	2.6
65°	4001.3	2063.8	45.9	19.6	11.1	6.0	3.8	3.8	2.6	1.7	1.7
66°	3917.5	1949.4	40.4	17.9	9.8	5.1	3.4	3.0	2.1	1.3	1.3
67.5°	3730.5	1754.3	34.9	15.3	8.1	3.8	2.6	2.6	1.7	0.9	0.9
70°	3223.2	1432.8	27.6	11.5	6.0	3.0	1.7	1.7	1.3	0.9	0.9
72.5°	2456.6	1069.7	22.5	8.5	4.3	2.1	1.3	1.3	1.3	0.9	0.9
75°	1481.7	576.1	17.4	6.4	3.8	1.7	0.9	1.3	1.7	1.3	0.9
77.5°	545.9	196.0	13.6	5.1	3.0	1.7	0.9	0.9	1.7	1.3	1.3
80°	133.9	51.0	9.8	4.3	3.0	1.7	0.9	0.9	1.7	1.7	1.7
82.5°	62.1	21.7	6.8	3.8	3.0	1.7	0.9	0.9	1.3	1.7	1.7
85°	35.7	10.2	5.5	4.3	3.0	1.7	0.9	0.9	1.3	1.7	1.7
87.5°	14.5	5.1	5.1	4.3	3.4	2.1	0.9	0.9	0.9	1.3	1.3
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)