

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: P451142

Luminaire Tested: **GALN-SA2A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7870 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

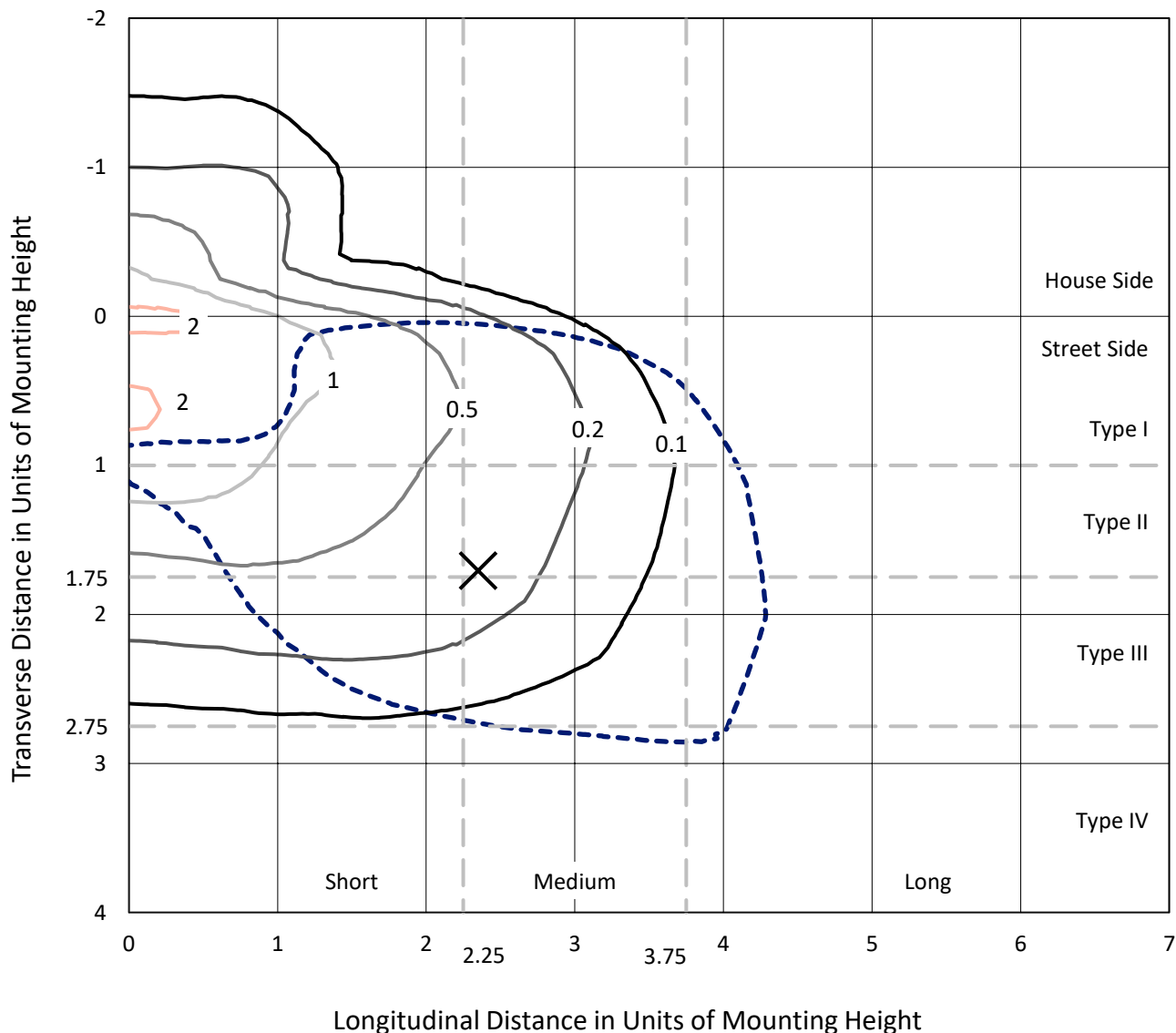
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451142
 CATALOG NUMBER: GALN-SA2A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

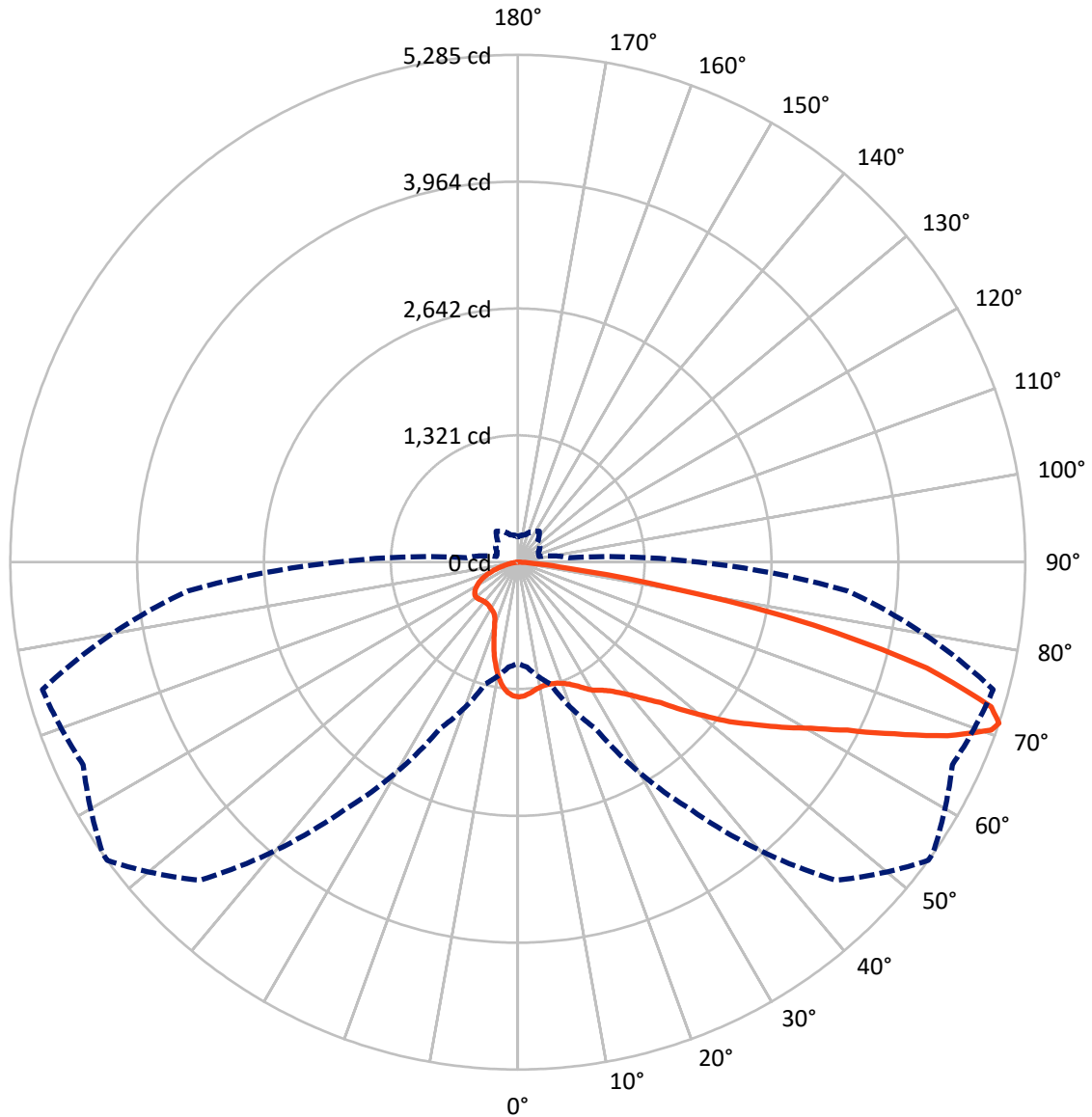
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P451142
CATALOG NUMBER: GALN-SA2A-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P451142

CATALOG NUMBER: GALN-SA2A-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.9	0.0	1420.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6449.1	0.0	6449.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	7870.0	0.0	7870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.6
10°-20°	330.4	4.2
20°-30°	550.1	7.0
30°-40°	813.5	10.3
40°-50°	1145.8	14.6
50°-60°	1534.3	19.5
60°-70°	1933.8	24.6
70°-80°	1320.8	16.8
80°-90°	116.2	1.5
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°	7870.0	100.0
0°-180°	7870.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451142

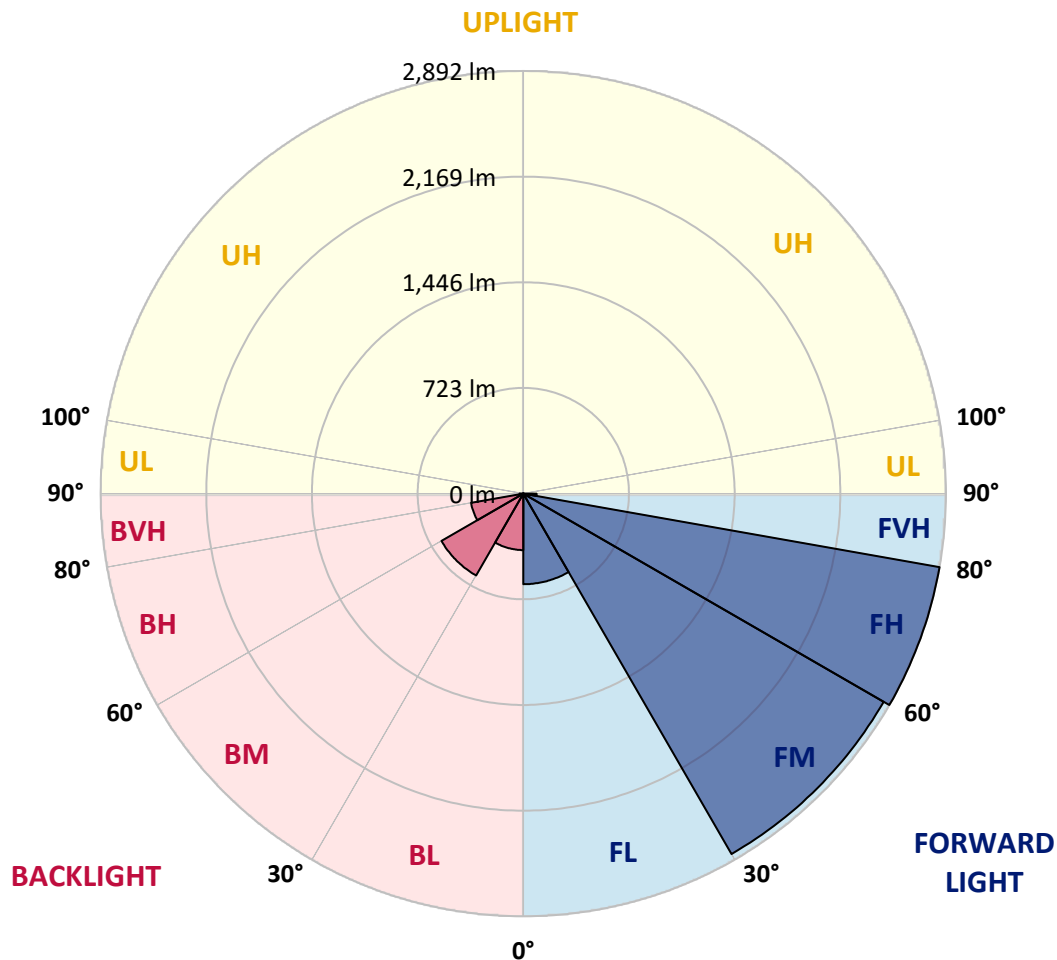
CATALOG NUMBER: GALN-SA2A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.5	7.9			
FM (30°-60°)	2847.1	36.2			
FH (60°-80°)	2891.7	36.7			G2/5000
FVH (80°-90°)	90.8	1.2			G1/100
BL (0°-30°)	386.2	4.9	B1/500		
BM (30°-60°)	646.5	8.2	B1/1000		
BH (60°-80°)	362.9	4.6	B1/500		G1/500
BVH (80°-90°)	25.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P451142

CATALOG NUMBER: GALN-SA2A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1356.5	1362.9	1364.6	1368.8	1377.8	1385.0	1392.2	1391.4	1401.6	1405.8	1409.7
5°	1296.1	1297.8	1304.2	1312.7	1328.5	1348.4	1368.0	1368.4	1393.5	1413.5	1423.3
7.5°	1251.9	1257.5	1261.7	1270.6	1287.2	1308.9	1339.9	1342.5	1387.1	1426.7	1447.5
10°	1223.0	1229.4	1234.1	1245.1	1261.7	1285.9	1319.5	1324.2	1382.4	1447.5	1484.0
12.5°	1196.7	1203.0	1207.3	1221.8	1243.4	1273.2	1311.0	1316.6	1384.1	1471.7	1524.0
15°	1212.8	1217.9	1216.2	1220.5	1234.9	1268.9	1314.4	1320.0	1390.5	1495.1	1563.5
17.5°	1284.7	1288.9	1274.9	1258.7	1251.9	1277.0	1325.1	1331.0	1403.3	1519.3	1603.9
20°	1390.5	1402.0	1371.4	1335.3	1302.5	1305.9	1347.2	1353.5	1421.1	1543.6	1645.2
22.5°	1528.3	1536.8	1499.3	1439.8	1379.5	1348.4	1380.3	1384.1	1447.9	1575.0	1690.2
25°	1690.2	1695.3	1643.5	1566.9	1479.8	1421.1	1425.8	1432.6	1492.1	1610.7	1730.2
27.5°	1847.5	1863.7	1803.7	1710.2	1595.4	1497.6	1488.3	1492.5	1540.2	1630.7	1757.8
30°	2034.1	2032.9	1969.5	1861.1	1714.0	1581.0	1547.4	1546.5	1566.1	1640.5	1777.8
32.5°	2182.9	2200.3	2138.3	2020.1	1849.6	1667.3	1588.2	1586.5	1586.1	1657.5	1807.5
35°	2352.1	2354.7	2297.7	2178.7	1996.3	1775.7	1645.2	1636.7	1626.9	1694.0	1847.9
37.5°	2503.4	2515.4	2463.1	2329.6	2140.4	1888.3	1723.4	1717.9	1688.1	1757.4	1912.6
40°	2621.6	2630.6	2599.1	2472.0	2282.4	2009.9	1822.9	1812.7	1776.5	1861.1	1998.8
42.5°	2660.3	2678.6	2690.9	2628.4	2445.6	2154.0	1945.3	1932.5	1904.9	2018.4	2098.3
45°	2663.3	2692.2	2757.2	2760.2	2609.7	2326.6	2088.1	2079.2	2077.1	2219.9	2238.2
47.5°	2640.8	2670.1	2779.3	2838.4	2756.0	2500.9	2294.3	2280.3	2281.5	2469.0	2395.0
50°	2586.3	2621.2	2753.8	2888.6	2870.3	2682.0	2512.0	2507.3	2533.6	2753.4	2557.9
52.5°	2483.9	2526.0	2727.5	2920.1	2955.3	2838.0	2759.4	2746.2	2812.9	3062.0	2736.0
55°	2200.3	2263.7	2631.0	2937.5	3036.1	2987.2	2982.1	3005.9	3094.3	3398.7	2932.0
57.5°	2052.4	2100.0	2421.4	2940.5	3138.1	3160.7	3242.3	3248.2	3403.0	3756.2	3153.4
60°	1971.6	2013.7	2306.6	2920.9	3280.5	3375.3	3508.4	3529.7	3704.4	4143.5	3383.0
62.5°	1901.1	1937.2	2237.8	2853.3	3441.2	3693.7	3853.2	3863.4	4046.6	4571.2	3609.6
65°	1734.9	1776.1	2099.2	2785.7	3579.8	4091.6	4310.6	4298.7	4410.9	4940.2	3751.6
67.5°	1510.8	1563.1	1840.3	2552.3	3648.3	4526.5	4825.8	4810.9	4770.5	5182.0	3792.4
70°	1224.7	1252.8	1509.1	2148.9	3374.9	4754.8	5232.6	5216.9	4993.3	5213.9	3599.4
71°	1053.8	1097.6	1314.0	1908.7	3147.5	4685.1	5284.9	5280.7	4993.7	5125.9	3454.0
72.5°	822.6	849.4	1040.7	1478.9	2675.2	4288.9	5155.7	5171.8	4885.3	4881.5	3154.3
75°	520.3	532.2	653.0	870.6	1467.9	3037.4	4401.1	4444.9	4337.8	3995.6	2345.7
77.5°	302.3	317.6	391.1	513.1	634.3	1648.6	3149.2	3196.8	3014.0	2199.9	960.3
80°	176.0	193.0	257.6	298.0	291.2	611.7	1603.5	1684.7	1305.1	555.6	269.5
82.5°	97.8	109.3	181.1	181.5	155.2	199.8	504.6	528.0	372.4	224.0	110.1
85°	71.0	80.3	116.9	105.9	74.4	85.9	175.6	184.1	150.5	94.4	35.7
87.5°	25.1	35.7	64.2	51.0	20.4	17.9	50.6	41.2	38.3	26.4	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451142
 CATALOG NUMBER: GALN-SA2A-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1411.8	1412.6	1408.4	1400.7	1393.1	1383.3	1372.2	1363.7	1359.9	1359.5	1359.1
5°	1427.1	1429.2	1413.1	1389.2	1362.9	1330.6	1302.9	1271.5	1263.4	1250.7	1254.5
7.5°	1451.7	1450.5	1418.6	1368.0	1306.4	1237.9	1180.1	1146.5	1111.7	1101.9	1102.3
10°	1487.0	1478.9	1418.6	1324.6	1221.8	1120.2	1039.4	988.4	960.7	937.8	929.3
12.5°	1524.4	1504.0	1405.0	1263.8	1112.9	988.4	901.6	832.8	814.9	796.2	796.6
15°	1560.1	1526.1	1378.2	1178.4	995.6	847.7	763.5	722.3	716.7	718.9	718.4
17.5°	1592.4	1541.9	1337.4	1083.2	858.7	726.9	682.3	685.3	700.1	710.8	712.1
20°	1625.2	1551.2	1276.6	955.6	729.5	653.8	655.5	678.9	701.4	715.9	718.0
22.5°	1656.2	1555.5	1205.2	832.4	636.0	622.8	647.9	672.9	695.0	709.1	711.2
25°	1676.6	1545.7	1104.0	703.6	590.0	611.7	638.1	659.3	678.0	692.5	695.9
27.5°	1682.1	1514.2	978.6	599.4	568.8	601.1	625.3	641.1	655.5	669.1	671.7
30°	1679.2	1467.9	840.9	538.2	556.5	588.8	607.5	619.0	636.4	647.0	649.1
32.5°	1674.5	1413.9	697.2	505.5	546.3	577.3	588.3	598.5	598.1	593.9	596.8
35°	1676.2	1349.3	580.7	485.9	537.3	568.8	578.1	565.4	528.8	527.1	525.4
37.5°	1685.1	1285.5	496.1	472.3	532.7	567.5	572.6	514.0	481.6	466.8	462.9
40°	1708.1	1211.1	440.4	462.1	532.2	577.3	547.5	488.0	426.0	397.0	394.9
42.5°	1738.7	1138.0	406.4	455.7	537.3	592.2	537.3	451.5	383.9	366.9	364.3
45°	1784.2	1054.3	387.7	452.7	545.0	597.7	533.9	424.7	366.9	353.3	353.3
47.5°	1835.6	974.3	377.5	450.6	554.8	593.9	503.8	416.2	358.8	360.5	368.6
50°	1886.6	905.1	369.8	445.9	563.3	591.7	491.4	415.8	360.9	382.6	397.0
52.5°	1945.7	856.2	360.5	438.3	563.3	578.1	487.6	424.3	366.9	373.2	379.6
55°	2017.1	840.9	348.6	421.7	553.1	544.1	485.5	436.6	371.1	356.2	358.8
57.5°	2111.5	865.5	337.1	400.9	529.7	508.9	484.6	440.0	361.3	349.0	346.5
60°	2221.2	914.4	333.7	379.6	497.8	478.7	479.5	430.2	347.7	335.0	337.1
62.5°	2298.1	943.7	331.6	363.5	462.9	445.5	467.2	418.3	341.8	330.7	332.9
65°	2298.1	908.0	312.0	338.8	417.9	405.6	452.3	403.4	334.1	321.4	319.3
67.5°	2211.0	803.9	282.3	301.8	368.1	360.1	431.5	385.6	322.7	312.9	307.8
70°	1984.0	609.6	244.9	258.5	305.2	312.5	404.7	361.3	303.5	291.6	284.0
71°	1884.1	531.0	229.1	236.4	281.0	291.6	391.9	351.1	295.0	278.0	264.4
72.5°	1691.5	447.2	205.3	208.3	240.2	259.3	365.2	331.6	278.9	254.6	239.3
75°	1285.1	326.5	165.4	163.7	177.7	205.8	309.1	295.4	244.4	211.7	202.8
77.5°	555.2	177.7	123.7	125.0	120.7	156.0	243.2	253.8	209.6	172.2	164.1
80°	168.3	102.5	84.6	86.3	80.8	104.6	171.3	198.9	168.3	133.9	122.9
82.5°	86.3	61.2	57.8	57.0	51.4	59.1	103.7	136.0	120.3	83.7	74.0
85°	37.4	32.7	28.5	27.6	24.2	21.3	37.0	68.0	63.8	46.8	44.6
87.5°	9.4	8.5	5.5	5.1	3.0	0.4	0.0	0.0	0.0	0.0	0.0
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)