

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: P451745

Luminaire Tested: **GALN-SA2C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10452 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

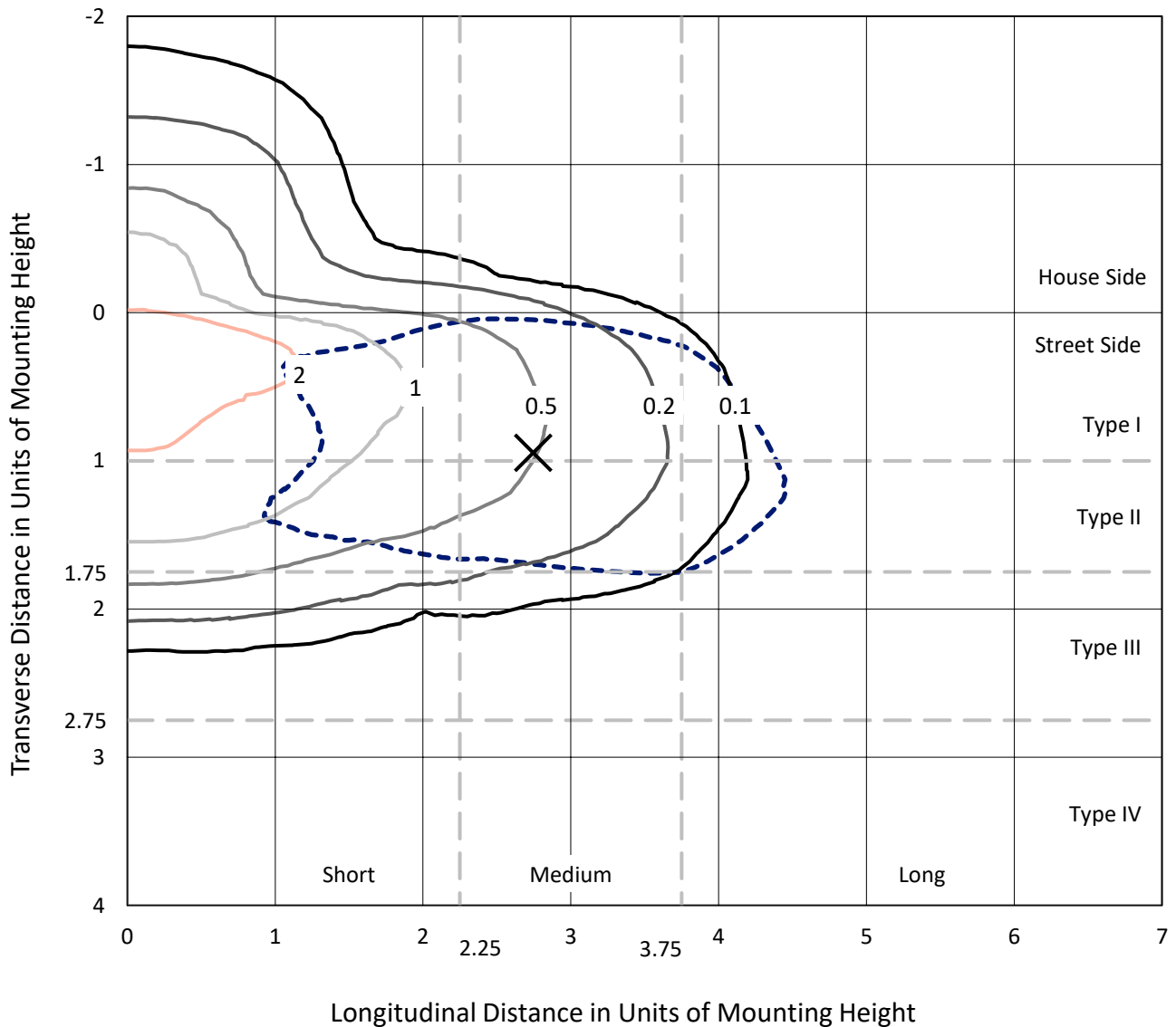
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451745
 CATALOG NUMBER: GALN-SA2C-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

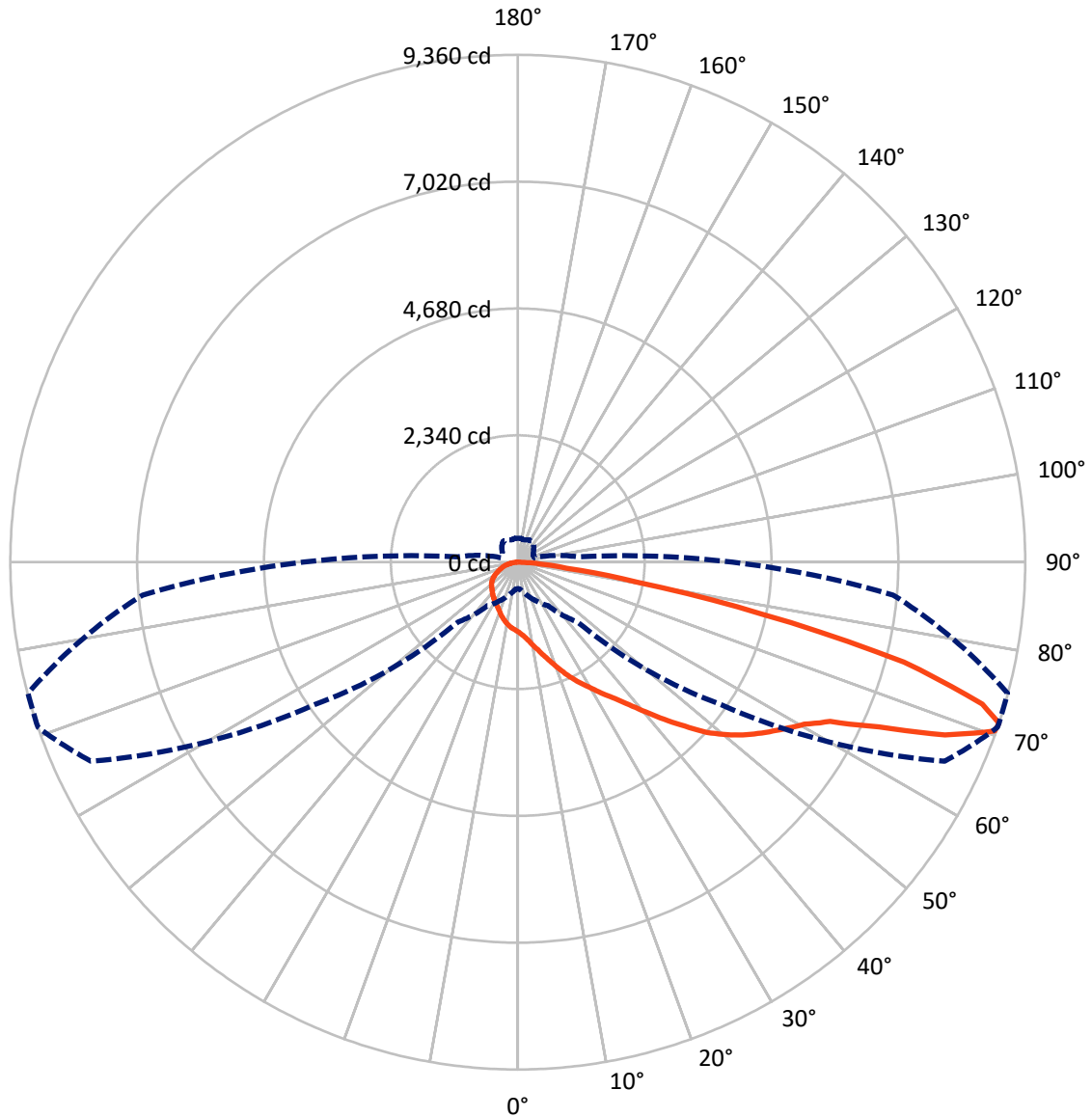
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P451745
CATALOG NUMBER: GALN-SA2C-827-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451745

CATALOG NUMBER: GALN-SA2C-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.8	0.0	1879.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	8572.2	0.0	8572.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	10452.0	0.0	10452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.2
10°-20°	418.5	4.0
20°-30°	731.3	7.0
30°-40°	1087.7	10.4
40°-50°	1602.6	15.3
50°-60°	2243.7	21.5
60°-70°	2509.5	24.0
70°-80°	1532.9	14.7
80°-90°	197.2	1.9
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°	10452.0	100.0
0°-180°	10452.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451745

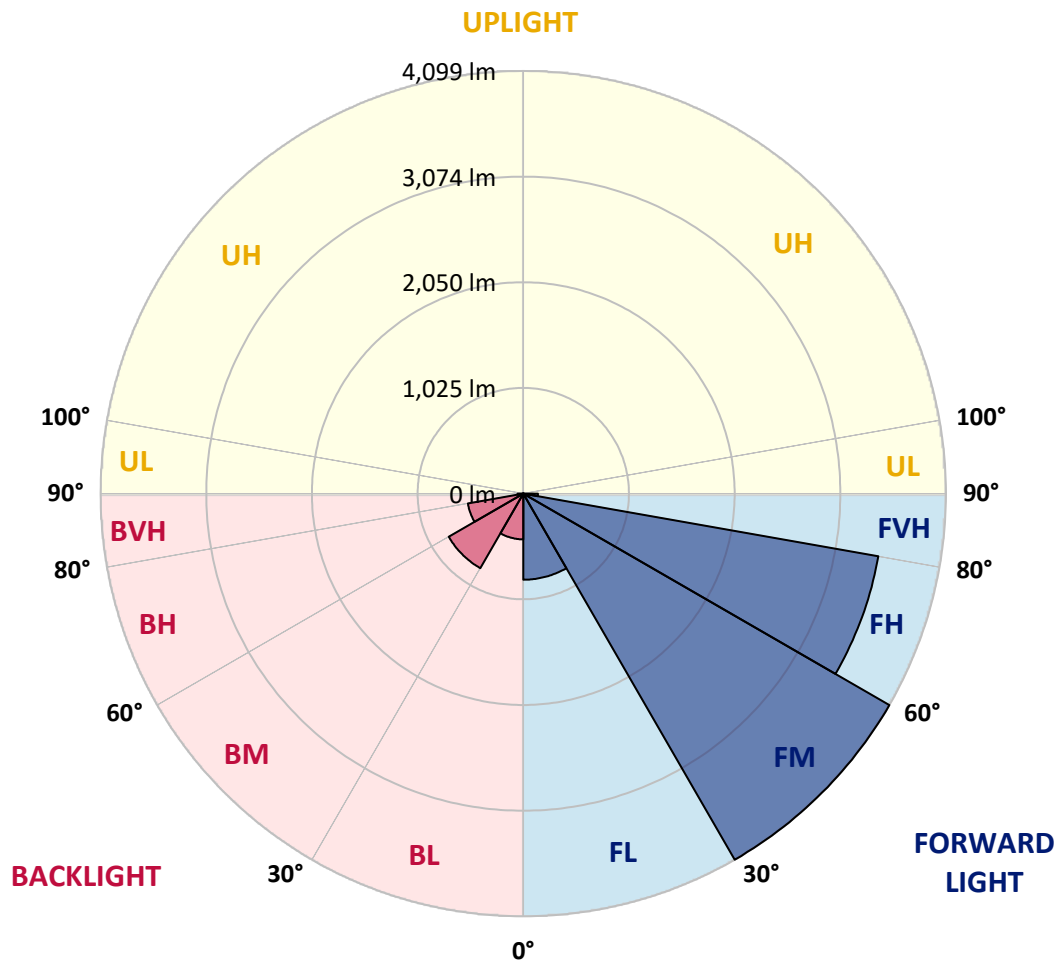
CATALOG NUMBER: GALN-SA2C-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.1	8.0			
FM (30°-60°)	4099.1	39.2			
FH (60°-80°)	3496.2	33.4			G2/5000
FVH (80°-90°)	141.9	1.4			G2/225
BL (0°-30°)	443.4	4.2	B1/500		
BM (30°-60°)	834.9	8.0	B1/1000		
BH (60°-80°)	546.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	55.3	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 Medium





REPORT NUMBER: P451745

CATALOG NUMBER: GALN-SA2C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8
2.5°	1424.1	1417.2	1417.8	1408.0	1395.4	1381.6	1362.1	1344.8	1331.0	1323.0	1299.4
5°	1578.1	1571.2	1562.5	1541.3	1532.1	1498.2	1455.1	1416.1	1386.2	1369.5	1322.4
7.5°	1702.7	1701.0	1698.7	1686.6	1663.1	1616.0	1579.2	1511.4	1467.2	1435.6	1355.2
10°	1779.7	1782.6	1784.3	1786.6	1776.8	1752.1	1701.6	1616.0	1559.7	1519.5	1397.7
12.5°	1818.8	1821.6	1831.4	1852.6	1865.9	1863.0	1821.6	1737.8	1660.2	1607.3	1443.1
15°	1842.9	1847.5	1864.7	1892.9	1937.1	1965.2	1945.1	1867.6	1782.6	1719.9	1497.1
17.5°	1869.3	1874.5	1893.4	1933.6	1991.7	2052.6	2074.4	2007.7	1915.3	1840.6	1557.4
20°	1884.2	1891.1	1918.1	1971.0	2038.8	2127.2	2199.6	2164.6	2063.5	1980.7	1626.9
22.5°	1908.4	1914.1	1937.1	1993.4	2074.4	2185.3	2324.9	2317.4	2228.3	2121.5	1703.3
25°	1973.9	1983.0	1994.5	2028.4	2106.6	2244.4	2428.8	2480.5	2388.0	2268.6	1773.4
27.5°	2097.4	2104.8	2104.3	2108.9	2153.1	2295.6	2519.0	2642.0	2546.6	2417.3	1841.2
30°	2238.1	2241.0	2243.3	2232.9	2242.7	2347.8	2601.7	2801.7	2706.3	2570.1	1900.3
32.5°	2409.3	2415.0	2395.5	2369.1	2361.0	2425.4	2670.1	2961.4	2895.3	2725.3	1958.9
35°	2611.5	2626.4	2586.8	2540.3	2507.5	2536.8	2762.0	3124.5	3088.9	2923.4	2036.5
37.5°	2842.4	2860.8	2824.1	2732.7	2686.2	2694.2	2882.1	3326.1	3333.6	3149.2	2151.9
40°	3031.4	3055.6	3056.7	2927.5	2856.8	2866.0	3034.3	3543.3	3628.9	3428.4	2288.1
42.5°	3156.1	3179.7	3204.4	3128.5	3054.4	3106.7	3211.8	3778.8	3960.9	3767.3	2478.2
45°	3292.8	3314.1	3327.9	3293.4	3252.0	3387.6	3426.1	4029.3	4314.8	4145.9	2686.2
47.5°	3451.4	3474.9	3488.1	3455.4	3439.9	3634.1	3657.0	4263.1	4692.8	4513.6	2916.0
50°	3662.8	3680.6	3673.7	3653.0	3649.6	3823.1	3878.8	4482.0	5004.7	4909.4	3154.4
52.5°	3925.9	3947.1	3954.6	3925.3	3912.1	3958.1	4057.4	4681.3	5288.5	5249.4	3408.9
55°	4085.0	4118.9	4232.6	4278.6	4310.2	4132.7	4249.9	4901.3	5543.0	5607.9	3682.3
57.5°	3881.1	3924.7	4179.2	4409.0	4706.0	4569.3	4522.8	5131.1	5797.5	5955.5	4009.8
60°	3383.6	3393.4	3721.4	4144.8	4742.2	5130.5	5092.0	5496.5	6073.2	6305.9	4441.2
62.5°	2347.3	2367.9	2755.7	3431.3	4295.3	5332.7	6060.6	6127.2	6468.5	6830.4	5073.7
65°	1210.4	1183.4	1536.7	2156.5	3238.3	4852.5	6845.3	7287.1	7325.6	7650.7	5964.1
67.5°	745.1	757.1	922.6	1259.2	1914.7	3526.6	6763.2	8704.3	8501.5	8657.7	6790.7
70°	559.5	574.5	688.2	861.7	1167.3	2016.4	5439.0	9047.8	9331.0	9290.8	7042.3
71°	486.6	502.1	620.4	784.1	980.6	1556.2	4582.5	8688.2	9359.7	9352.8	6947.6
72.5°	414.8	424.5	517.0	664.1	826.7	1090.9	3442.8	7792.0	8960.5	9189.7	6609.2
75°	325.7	333.2	374.6	506.7	650.9	669.8	1847.5	5841.7	7359.5	7796.0	5502.2
77.5°	265.4	270.6	291.8	376.3	502.1	474.5	969.1	3802.4	4610.6	5050.1	3241.1
80°	210.8	216.6	229.2	255.1	376.3	338.4	462.4	1926.8	2227.2	2222.6	1293.7
82.5°	163.7	165.4	180.4	187.3	257.4	240.1	250.5	815.7	903.6	933.5	467.0
85°	103.4	108.6	159.7	143.6	154.0	140.7	123.5	324.0	399.3	393.5	186.7
87.5°	31.6	33.3	54.0	60.9	68.4	61.5	45.4	95.4	116.6	126.4	46.5
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: P451745
 CATALOG NUMBER: GALN-SA2C-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8
2.5°	1290.2	1283.9	1261.5	1243.1	1225.9	1206.9	1190.9	1186.3	1182.2	1180.5	1179.9
5°	1302.3	1283.4	1239.1	1202.9	1174.2	1147.8	1131.1	1123.7	1116.2	1116.2	1118.5
7.5°	1319.5	1285.1	1216.7	1162.7	1126.5	1101.8	1089.8	1088.6	1090.3	1092.1	1092.6
10°	1338.5	1283.9	1184.0	1116.8	1084.6	1073.1	1073.7	1083.4	1092.6	1099.5	1100.7
12.5°	1356.9	1277.0	1145.5	1073.7	1053.0	1055.3	1071.4	1093.2	1111.0	1120.8	1121.4
15°	1377.6	1266.1	1098.9	1032.9	1026.0	1043.8	1073.7	1107.0	1134.0	1150.1	1151.8
17.5°	1394.8	1247.7	1050.1	993.2	1001.9	1034.6	1076.0	1119.1	1151.8	1171.9	1175.4
20°	1414.3	1224.2	999.6	955.3	980.0	1024.3	1071.4	1117.9	1151.8	1171.3	1175.9
22.5°	1429.8	1190.9	951.3	924.3	960.5	1011.6	1055.9	1093.2	1120.8	1131.1	1138.0
25°	1436.2	1148.9	905.9	899.0	945.0	990.9	1020.8	1042.1	1050.7	1049.5	1052.4
27.5°	1432.7	1100.7	866.9	878.9	925.5	958.8	973.7	972.0	956.5	942.1	949.0
30°	1418.4	1043.2	834.1	858.2	900.2	918.6	916.3	893.9	864.6	837.6	839.3
32.5°	1392.5	981.2	803.7	834.7	864.6	872.6	857.1	827.8	785.9	750.8	745.7
35°	1370.7	922.0	776.7	807.7	829.0	824.9	810.0	772.1	734.2	703.1	698.0
37.5°	1367.2	871.5	750.8	777.2	789.3	783.6	765.2	733.0	719.2	695.7	692.8
40°	1385.6	835.8	724.4	745.1	750.8	746.2	726.1	707.7	720.4	714.6	714.6
42.5°	1435.6	816.9	700.8	712.9	717.5	721.0	706.6	691.1	706.6	680.2	671.5
45°	1514.9	817.5	679.6	681.3	695.1	707.2	697.4	674.4	666.4	613.5	603.2
47.5°	1631.5	837.0	662.4	651.4	676.1	696.2	682.5	649.1	613.5	578.5	572.2
50°	1767.6	872.0	646.8	620.4	650.9	682.5	672.1	633.1	596.3	575.0	571.0
52.5°	1918.7	916.3	627.9	586.0	619.8	676.1	674.4	630.8	580.2	565.8	562.4
55°	2105.4	959.9	604.3	545.7	592.3	671.0	668.1	611.8	576.8	566.4	565.3
57.5°	2322.6	1023.1	570.4	505.0	560.7	649.7	643.4	600.3	565.3	557.8	557.2
60°	2672.4	1121.4	522.2	467.6	528.5	612.4	620.4	580.8	546.9	545.2	544.6
62.5°	3132.5	1259.2	472.2	429.1	491.2	564.1	587.1	554.4	527.4	536.0	537.1
65°	3767.9	1375.3	420.5	396.4	449.8	517.6	555.5	529.7	505.5	522.2	522.2
67.5°	4182.1	1377.6	373.4	362.5	407.9	478.5	522.2	500.4	477.4	505.5	506.7
70°	4095.9	1206.9	334.3	326.9	367.1	436.6	485.4	468.2	441.8	467.0	457.8
71°	3956.9	1112.2	318.8	313.1	351.0	416.5	468.2	453.8	427.4	444.1	438.9
72.5°	3735.2	965.7	293.6	294.7	326.9	391.2	444.1	429.1	402.7	411.9	410.2
75°	3157.3	843.3	251.0	256.2	280.9	348.1	395.8	384.3	357.3	357.3	355.6
77.5°	1973.9	589.4	208.5	211.4	238.4	298.1	340.1	330.3	304.5	295.8	293.6
80°	736.5	304.5	163.1	166.6	183.3	235.0	281.5	272.3	245.9	236.1	226.9
82.5°	278.6	152.8	120.1	117.2	135.0	179.2	220.6	209.7	189.0	165.4	158.6
85°	105.1	75.8	73.5	71.2	79.3	106.3	136.7	134.4	112.6	95.9	94.2
87.5°	27.6	24.7	28.7	21.3	22.4	20.1	20.7	8.6	4.0	1.7	1.1
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)