

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: P526916

Luminaire Tested: **GALN-SA1D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5056 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

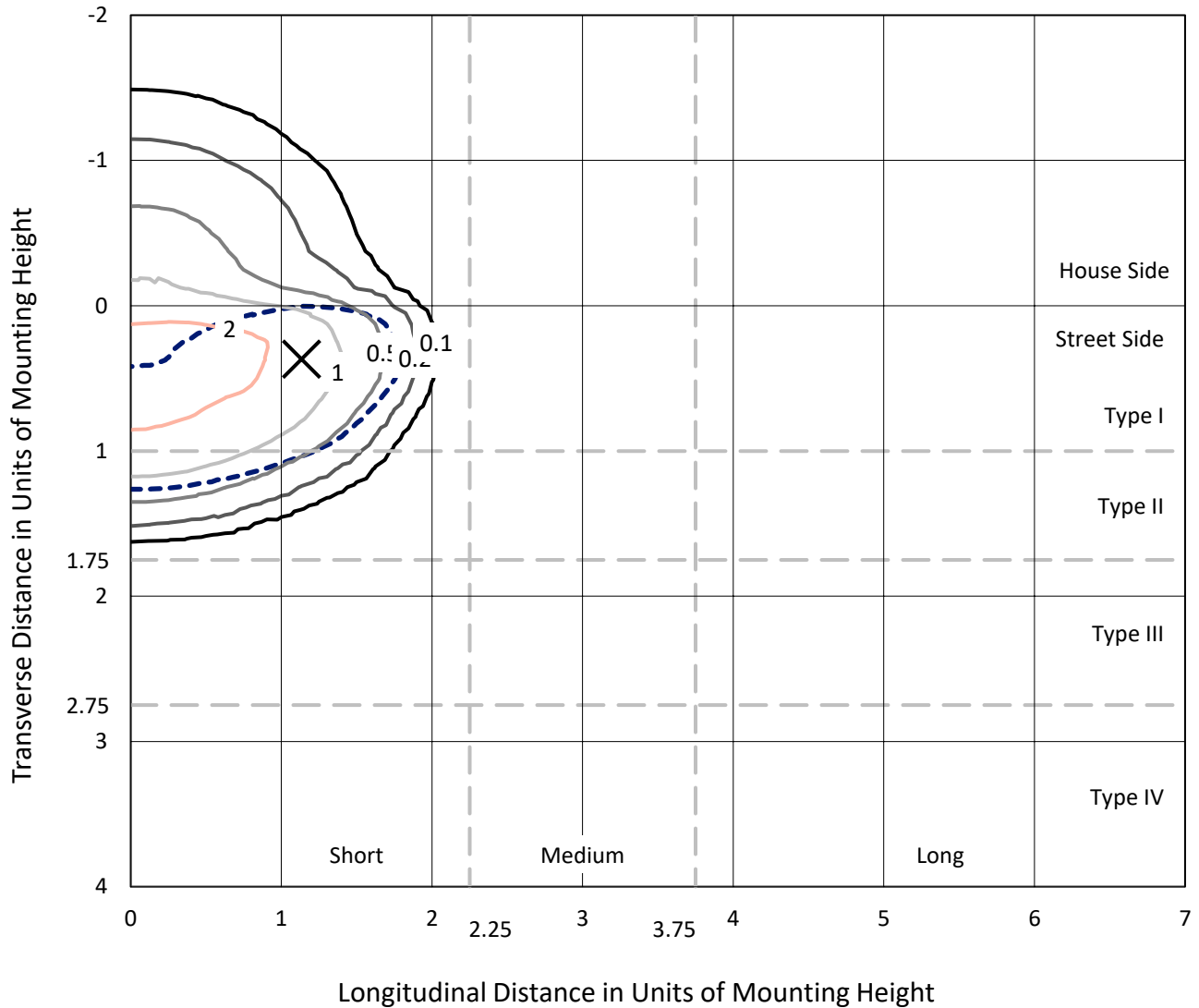
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526916  
 CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

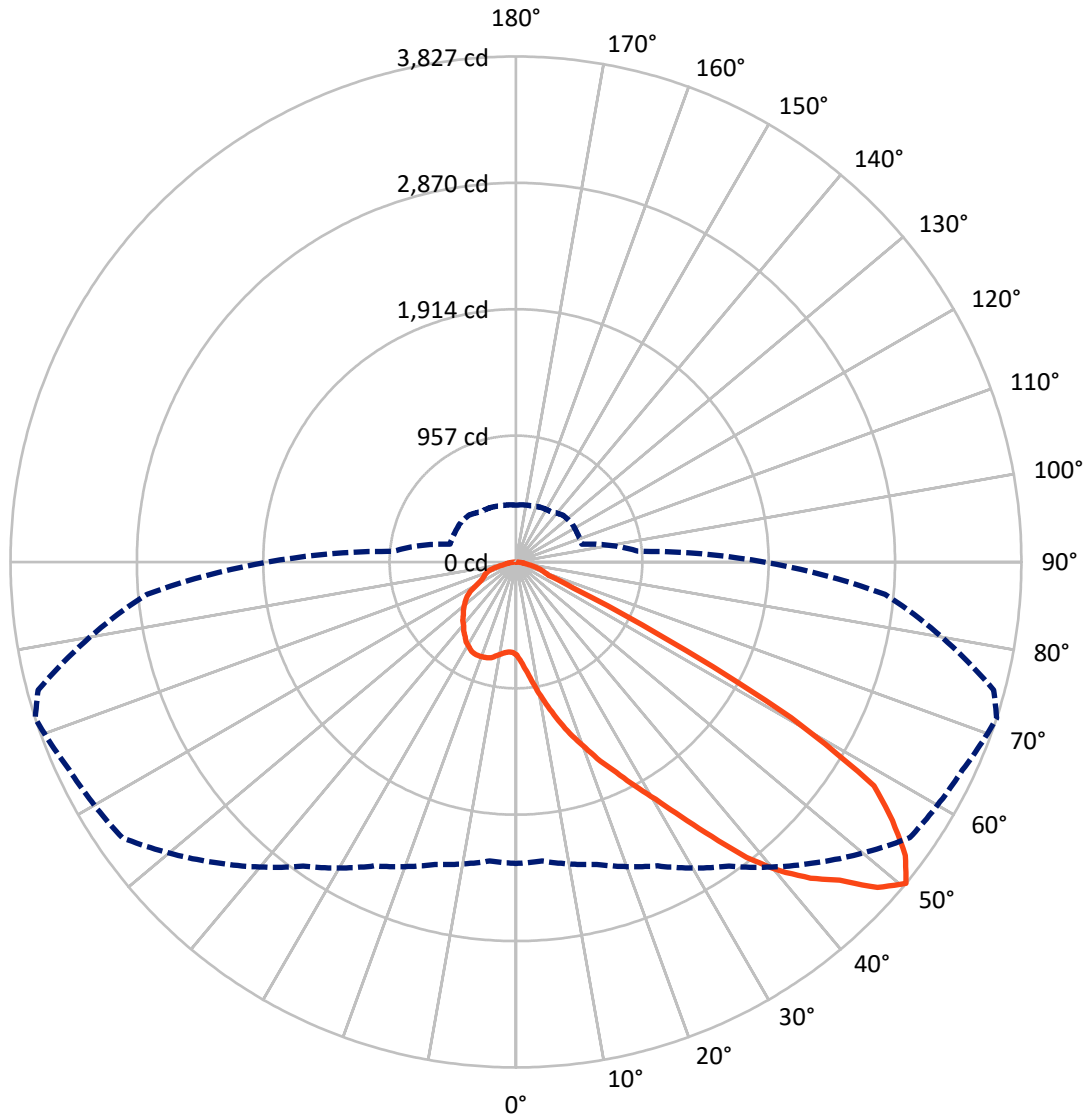
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P526916  
CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P526916  
 CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

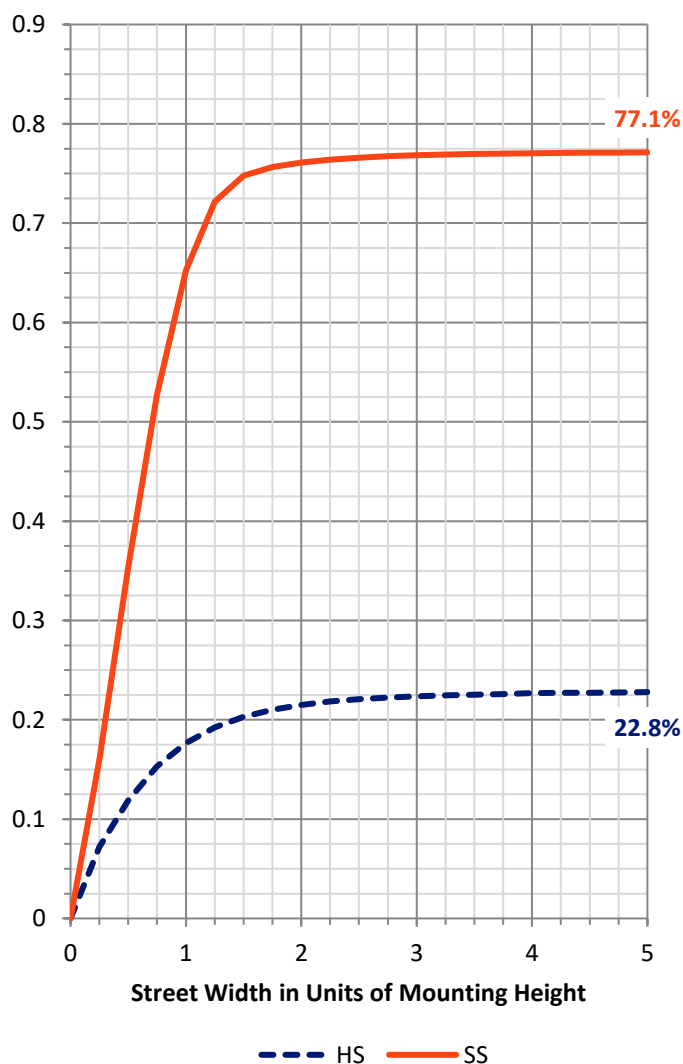
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1158.4	0.0	1158.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3897.6	0.0	3897.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5056.0	0.0	5056.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	1.6
10°-20°	309.5	6.1
20°-30°	600.1	11.9
30°-40°	994.1	19.7
40°-50°	1391.0	27.5
50°-60°	1173.5	23.2
60°-70°	357.7	7.1
70°-80°	125.5	2.5
80°-90°	21.8	0.4
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°	5056.0	100.0
0°-180°	5056.0	100.0

**Coefficient of Utilization**

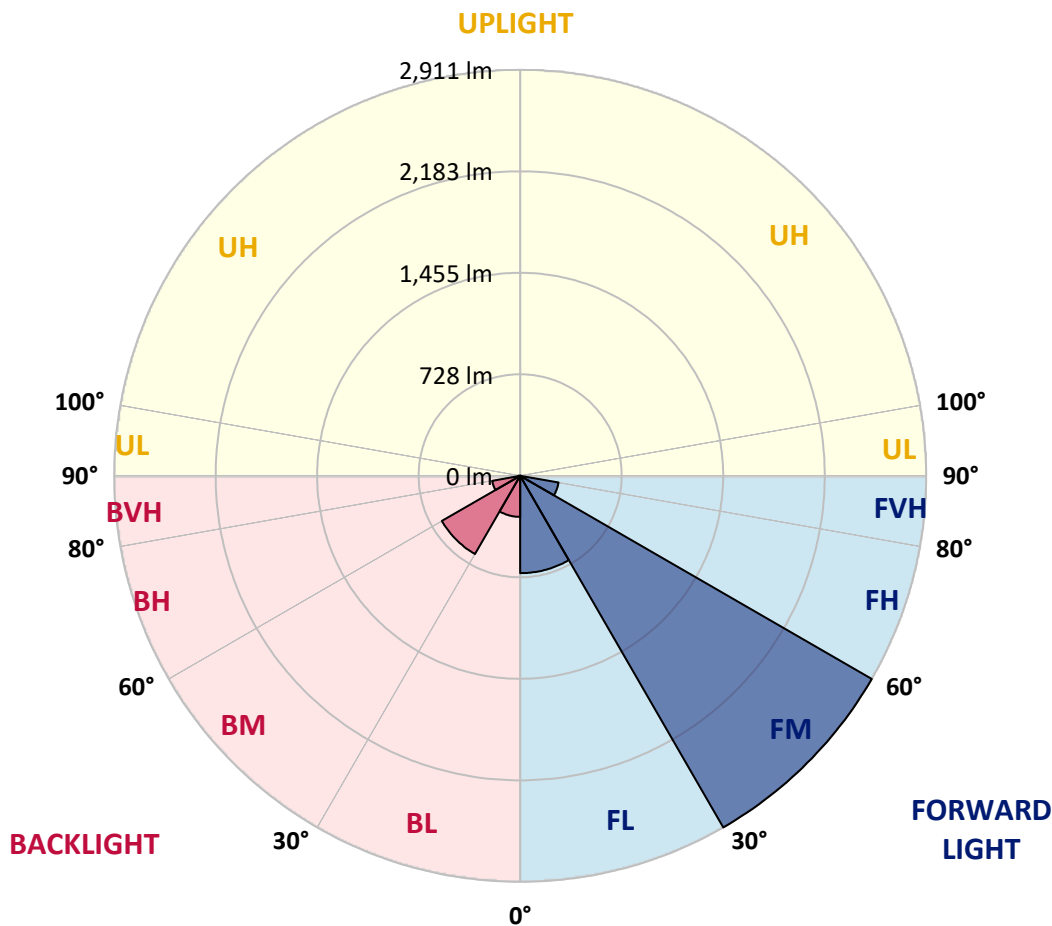


REPORT NUMBER: P526916  
 CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.9	13.8			
FM (30°-60°)	2910.9	57.6			
FH (60°-80°)	279.1	5.5			G0/660
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	294.5	5.8	B1/500		
BM (30°-60°)	647.8	12.8	B1/1000		
BH (60°-80°)	204.1	4.0	B1/500		G1/500
BVH (80°-90°)	12.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





REPORT NUMBER: P526916

CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8
2.5°	905.3	899.7	882.8	877.1	857.1	820.8	808.3	771.4	755.8	741.4	724.5
5°	1144.9	1118.6	1116.8	1084.8	1038.6	1011.7	931.6	877.8	828.3	803.3	757.0
7.5°	1297.6	1298.2	1298.2	1271.9	1235.0	1166.8	1094.9	997.9	923.4	886.5	807.7
10°	1442.7	1430.2	1423.3	1420.8	1395.8	1329.5	1252.5	1132.4	1030.4	987.3	845.9
12.5°	1545.3	1534.7	1550.3	1542.2	1524.0	1480.9	1408.3	1271.3	1143.7	1085.5	907.2
15°	1594.1	1601.6	1614.1	1636.7	1628.5	1612.3	1532.2	1413.9	1265.7	1200.0	961.6
17.5°	1669.2	1648.5	1663.6	1691.7	1714.2	1706.7	1661.1	1517.2	1386.4	1305.7	1034.8
20°	1721.7	1709.9	1717.4	1749.9	1766.8	1809.3	1785.6	1652.3	1502.1	1417.1	1121.1
22.5°	1871.9	1854.4	1830.0	1835.0	1841.2	1871.3	1876.9	1800.6	1636.7	1546.6	1203.1
25°	2057.1	2040.8	2012.0	1982.6	1964.5	1958.9	1978.3	1916.9	1765.5	1672.3	1291.3
27.5°	2261.0	2233.5	2215.4	2154.7	2105.9	2098.4	2089.0	2055.8	1918.2	1817.5	1390.8
30°	2459.4	2437.5	2413.1	2316.1	2265.4	2257.3	2211.0	2220.4	2084.0	1972.0	1503.4
32.5°	2609.5	2611.4	2555.7	2482.5	2435.0	2391.8	2374.9	2401.8	2296.7	2206.6	1629.2
35°	2730.9	2736.5	2683.3	2617.0	2565.7	2595.8	2588.2	2600.8	2550.7	2440.6	1775.5
37.5°	2849.1	2821.0	2764.1	2732.1	2705.2	2754.7	2818.5	2829.1	2838.5	2709.0	1945.7
40°	2868.5	2871.0	2837.9	2860.4	2826.6	2901.1	3049.3	3035.6	3073.7	2960.5	2130.3
42.5°	2841.0	2846.6	2859.8	2891.7	2973.0	3062.5	3282.7	3226.4	3272.7	3172.0	2309.8
45°	2796.0	2772.8	2789.1	2910.4	3051.2	3250.2	3496.0	3452.2	3437.2	3352.8	2523.8
47.5°	2580.7	2604.5	2655.2	2804.7	3016.2	3282.7	3647.4	3637.4	3682.5	3623.0	2718.4
50°	2282.3	2272.9	2370.5	2538.8	2811.6	3218.9	3639.3	3730.0	3827.0	3744.4	2805.3
52.5°	1709.2	1759.3	1843.1	2052.1	2441.2	2871.0	3461.6	3613.0	3691.9	3674.3	2735.3
55°	1080.5	1095.5	1146.2	1394.5	1744.9	2304.2	2967.4	3318.4	3459.1	3524.8	2670.8
57.5°	524.9	496.8	558.7	758.3	1007.9	1549.7	2288.6	2890.4	3196.4	3315.2	2530.7
60°	274.0	284.7	309.1	380.4	521.2	804.6	1426.4	1926.3	2393.7	2576.4	1918.2
62.5°	227.1	230.9	247.1	282.8	346.6	463.0	728.2	939.1	1220.6	1385.2	1091.1
65°	192.7	194.6	212.1	235.9	276.5	326.0	374.8	392.3	474.9	487.4	387.9
67.5°	160.8	162.7	181.4	204.0	230.2	243.4	255.9	254.6	264.0	260.3	259.6
70°	123.9	125.8	145.1	168.9	182.1	174.6	213.3	222.1	225.9	229.0	234.0
72.5°	89.5	93.2	108.2	125.1	118.2	135.8	175.8	188.9	193.9	195.8	202.1
75°	65.1	66.3	70.1	65.1	75.1	94.5	123.9	140.1	146.4	148.3	157.7
77.5°	28.8	29.4	30.0	37.5	48.2	58.8	73.8	87.0	95.7	98.2	100.7
80°	15.0	15.6	19.4	25.7	34.4	43.2	53.8	61.3	66.9	67.6	70.1
82.5°	9.4	10.0	13.8	18.1	24.4	31.9	39.4	45.7	50.1	50.7	51.3
85°	4.4	5.6	8.1	11.3	16.3	20.6	21.3	18.1	19.4	20.0	18.8
87.5°	1.3	1.9	2.5	1.9	2.5	2.5	3.1	3.8	3.8	3.8	4.4
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: P526916

CATALOG NUMBER: GALN-SA1D-827-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8
2.5°	715.1	709.5	687.6	679.4	658.2	661.9	650.7	650.0	647.5	646.9	646.3
5°	732.6	715.1	688.8	668.8	656.9	655.7	647.5	647.5	650.0	651.9	647.5
7.5°	761.4	741.4	697.0	678.2	667.6	665.7	660.0	655.7	661.3	659.4	654.4
10°	794.6	759.5	712.6	696.3	678.8	674.4	674.4	676.3	666.9	670.1	665.0
12.5°	831.5	784.5	732.6	713.8	693.2	690.7	689.4	675.7	680.7	678.2	665.7
15°	878.4	813.3	758.3	726.4	708.8	697.6	681.3	678.8	675.7	669.4	663.8
17.5°	929.1	844.6	770.2	730.1	703.8	695.7	683.2	670.1	660.7	661.9	657.5
20°	972.2	873.4	774.5	733.9	700.1	684.4	665.0	656.9	646.9	646.3	645.7
22.5°	1023.5	912.2	780.8	723.9	688.8	672.6	659.4	645.0	638.1	629.4	633.8
25°	1084.8	927.2	782.0	718.2	680.7	651.9	645.0	629.4	626.9	614.4	616.9
27.5°	1129.3	935.3	772.0	700.7	661.9	640.0	627.5	616.2	611.9	602.5	600.0
30°	1188.7	947.8	750.8	678.8	643.2	618.8	611.2	608.7	596.2	586.2	585.0
32.5°	1256.3	956.0	737.0	656.3	623.8	605.0	608.7	596.9	581.2	572.5	570.0
35°	1310.1	959.1	702.6	630.6	610.6	598.7	594.4	591.8	569.3	561.2	554.9
37.5°	1392.0	952.2	673.8	612.5	596.2	591.8	588.1	571.2	545.6	533.7	524.9
40°	1487.8	950.3	636.9	586.8	582.5	587.5	576.2	549.9	514.3	501.1	494.9
42.5°	1579.7	963.5	613.7	573.1	567.5	569.3	553.7	514.3	496.8	489.2	479.2
45°	1733.6	991.0	575.6	551.8	549.3	548.1	529.3	488.0	478.0	468.6	466.7
47.5°	1872.5	972.9	551.2	529.9	532.4	525.5	485.5	472.4	461.1	451.7	448.6
50°	1880.7	929.7	516.8	513.0	513.6	501.8	463.6	454.8	440.4	434.2	429.8
52.5°	1838.1	859.0	484.9	486.1	488.0	468.6	436.7	430.4	418.5	409.8	407.3
55°	1718.6	748.9	453.6	458.6	463.6	426.7	416.7	401.0	391.6	379.1	379.8
57.5°	1514.0	603.1	409.8	417.9	428.6	387.9	380.4	361.0	347.2	337.2	336.0
60°	1014.8	429.2	344.1	347.2	371.0	354.7	354.1	334.7	315.9	307.2	302.2
62.5°	598.7	327.8	297.2	294.0	293.4	302.8	318.4	311.6	287.2	270.3	275.3
65°	313.4	283.4	276.5	265.9	259.6	257.1	269.0	272.2	255.9	237.7	236.5
67.5°	263.4	263.4	257.8	254.0	245.2	234.6	227.1	217.1	214.6	209.6	203.3
70°	239.6	245.9	244.0	235.2	227.7	215.8	196.4	180.2	164.5	158.9	162.7
72.5°	209.0	215.2	215.2	210.8	200.8	182.7	163.9	145.1	132.0	122.0	120.7
75°	160.8	163.9	171.4	166.4	153.3	142.0	122.6	103.2	90.7	81.3	79.5
77.5°	102.6	107.6	107.6	107.0	97.6	87.0	74.5	60.7	51.3	44.4	42.5
80°	68.2	71.3	73.8	71.3	65.1	56.9	47.5	38.2	31.3	25.7	24.4
82.5°	50.1	53.8	55.7	53.2	46.9	40.7	33.8	26.9	20.0	15.6	14.4
85°	19.4	20.0	22.5	26.9	26.3	25.7	20.6	15.0	11.3	8.1	7.5
87.5°	5.0	4.4	5.0	5.0	4.4	3.8	3.8	3.8	3.8	1.9	2.5
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)