

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: P526682

Luminaire Tested: **GALN-SA1C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526682  
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-SA1C-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 4596 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

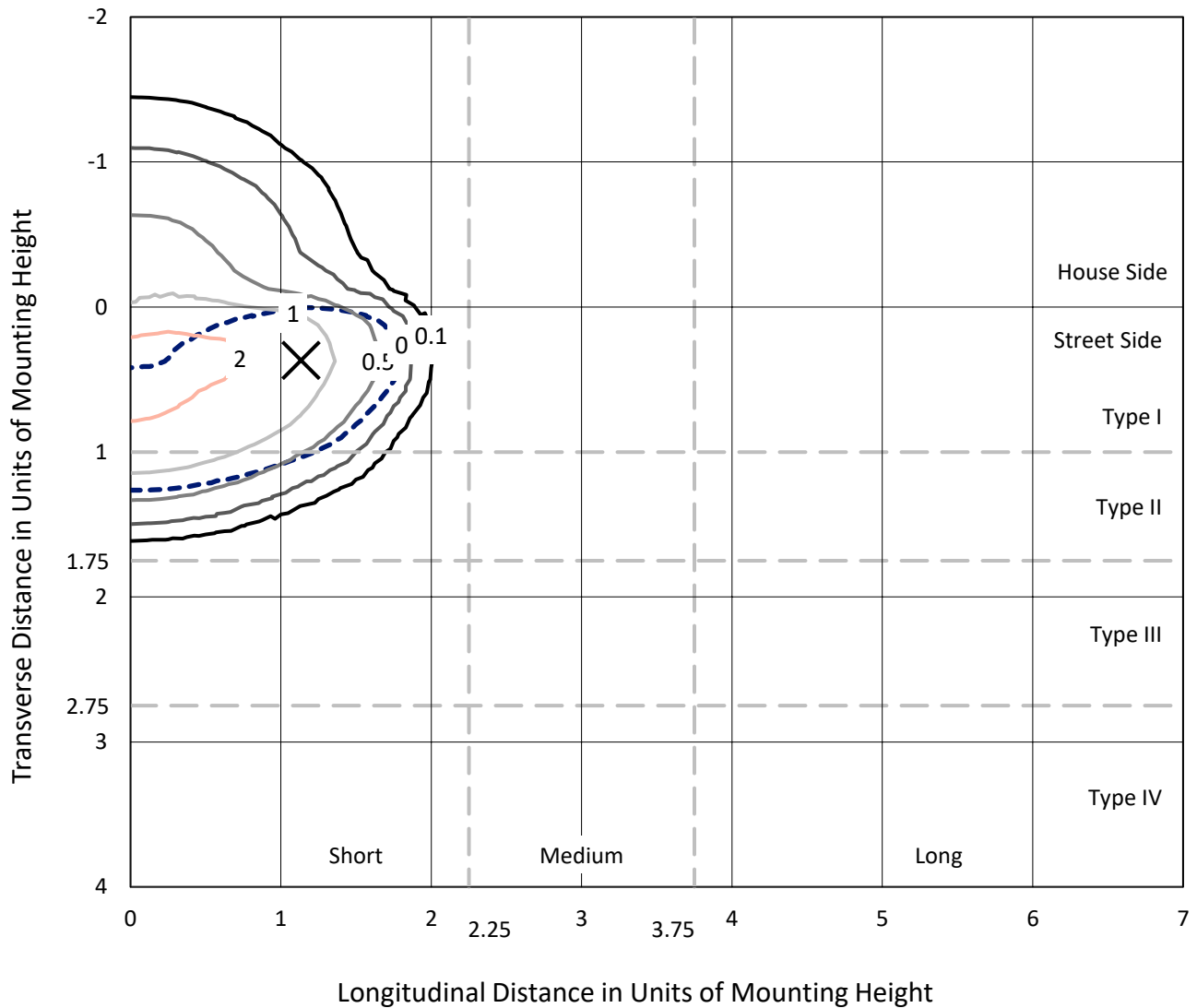
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

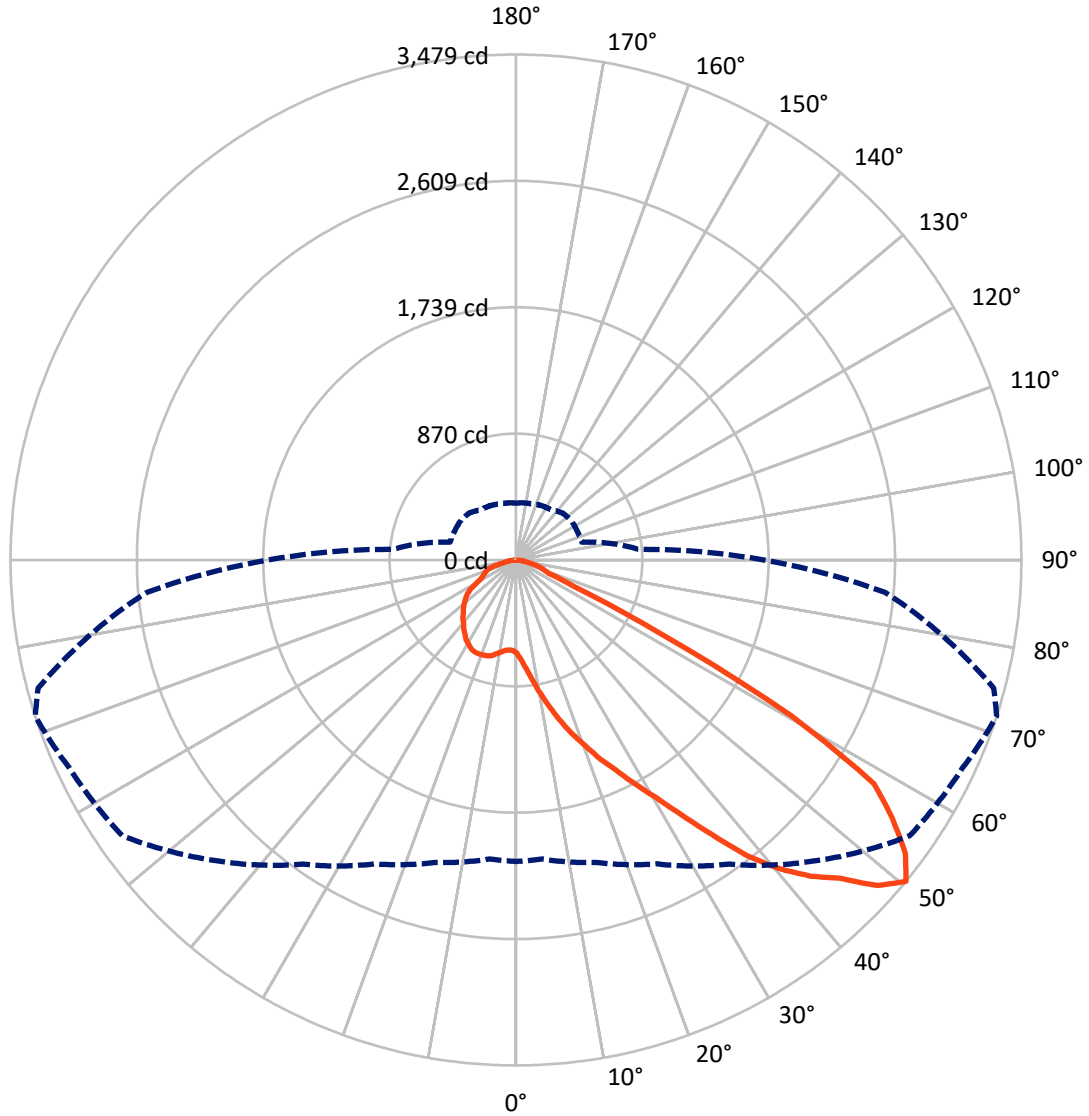
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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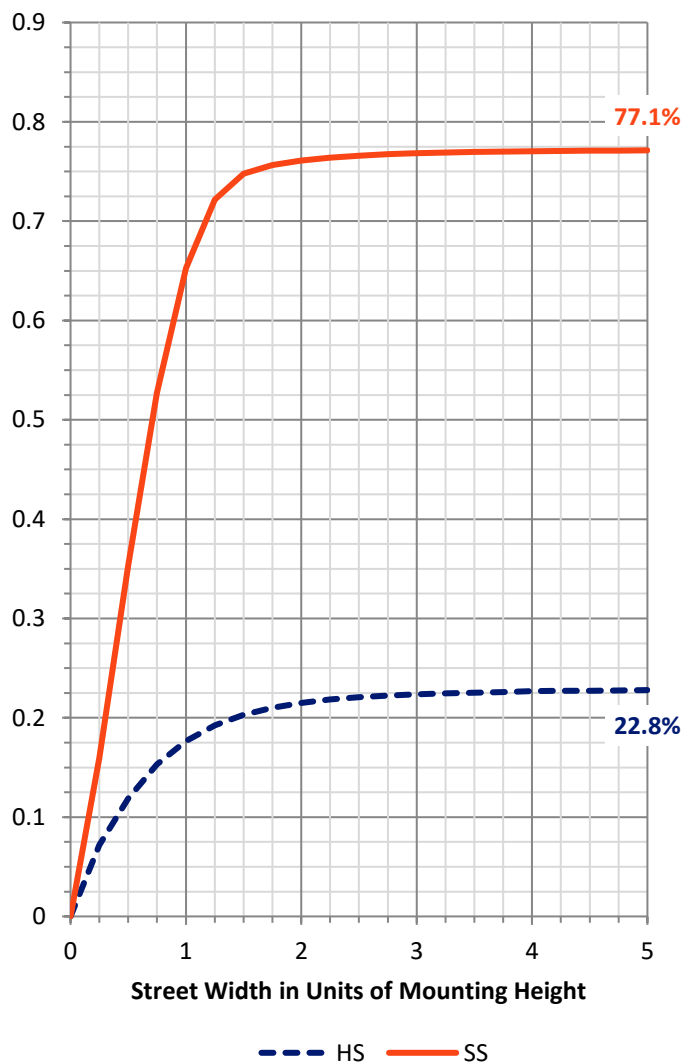
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1053.0	0.0	1053.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3543.0	0.0	3543.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4596.0	0.0	4596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.6
10°-20°	281.3	6.1
20°-30°	545.5	11.9
30°-40°	903.7	19.7
40°-50°	1264.5	27.5
50°-60°	1066.7	23.2
60°-70°	325.1	7.1
70°-80°	114.1	2.5
80°-90°	19.8	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°	4596.0	100.0
0°-180°	4596.0	100.0

**Coefficient of Utilization**

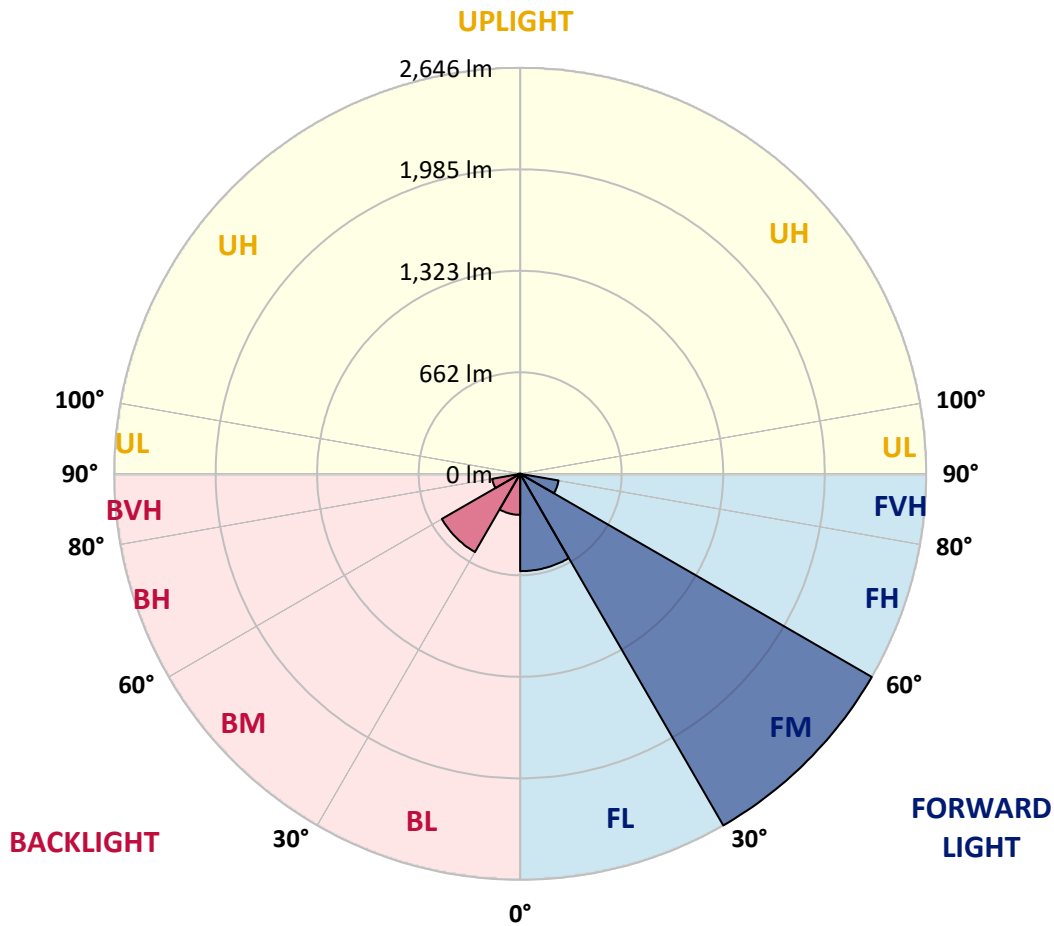


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.4	13.8			
FM (30°-60°)	2646.0	57.6			
FH (60°-80°)	253.7	5.5			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	267.7	5.8	B1/500		
BM (30°-60°)	588.8	12.8	B1/1000		
BH (60°-80°)	185.5	4.0	B1/500		G1/500
BVH (80°-90°)	10.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8
2.5°	822.9	817.8	802.5	797.3	779.1	746.2	734.8	701.2	687.0	673.9	658.6
5°	1040.7	1016.9	1015.2	986.1	944.1	919.6	846.8	797.9	753.0	730.2	688.1
7.5°	1179.5	1180.1	1180.1	1156.2	1122.6	1060.7	995.2	907.1	839.4	805.9	734.2
10°	1311.5	1300.1	1293.8	1291.5	1268.8	1208.5	1138.6	1029.4	936.7	897.4	768.9
12.5°	1404.7	1395.1	1409.3	1401.9	1385.4	1346.1	1280.2	1155.6	1039.6	986.7	824.6
15°	1449.1	1455.9	1467.3	1487.8	1480.4	1465.6	1392.8	1285.3	1150.5	1090.8	874.1
17.5°	1517.3	1498.6	1512.2	1537.8	1558.3	1551.4	1509.9	1379.1	1260.3	1186.9	940.7
20°	1565.1	1554.3	1561.1	1590.7	1606.0	1644.7	1623.1	1502.0	1365.5	1288.1	1019.1
22.5°	1701.6	1685.7	1663.5	1668.0	1673.7	1701.0	1706.1	1636.8	1487.8	1405.9	1093.6
25°	1869.9	1855.1	1829.0	1802.3	1785.8	1780.6	1798.3	1742.5	1604.9	1520.2	1173.8
27.5°	2055.3	2030.3	2013.8	1958.6	1914.3	1907.5	1898.9	1868.8	1743.7	1652.1	1264.2
30°	2235.6	2215.7	2193.5	2105.4	2059.3	2051.9	2009.8	2018.4	1894.4	1792.6	1366.6
32.5°	2372.1	2373.8	2323.2	2256.7	2213.4	2174.2	2158.8	2183.3	2087.7	2005.9	1480.9
35°	2482.4	2487.6	2439.2	2378.9	2332.3	2359.6	2352.8	2364.1	2318.6	2218.6	1614.0
37.5°	2589.9	2564.3	2512.6	2483.6	2459.1	2504.0	2562.1	2571.7	2580.3	2462.5	1768.7
40°	2607.6	2609.8	2579.7	2600.2	2569.4	2637.1	2771.9	2759.4	2794.1	2691.2	1936.5
42.5°	2582.5	2587.6	2599.6	2628.6	2702.5	2783.9	2984.0	2932.9	2974.9	2883.4	2099.7
45°	2541.6	2520.5	2535.3	2645.7	2773.6	2954.5	3178.0	3138.2	3124.5	3047.7	2294.2
47.5°	2345.9	2367.6	2413.6	2549.5	2741.8	2984.0	3315.6	3306.5	3347.4	3293.4	2471.1
50°	2074.7	2066.1	2154.9	2307.8	2555.8	2926.0	3308.2	3390.7	3478.8	3403.7	2550.1
52.5°	1553.7	1599.2	1675.4	1865.4	2219.1	2609.8	3146.7	3284.3	3356.0	3340.1	2486.4
55°	982.2	995.8	1041.9	1267.7	1586.1	2094.6	2697.4	3016.5	3144.4	3204.1	2427.8
57.5°	477.2	451.6	507.9	689.3	916.2	1408.7	2080.4	2627.5	2905.6	3013.6	2300.4
60°	249.1	258.8	280.9	345.8	473.7	731.4	1296.7	1751.1	2175.9	2342.0	1743.7
62.5°	206.4	209.9	224.6	257.1	315.1	420.8	662.0	853.6	1109.6	1259.1	991.8
65°	175.2	176.9	192.8	214.4	251.4	296.3	340.7	356.6	431.7	443.0	352.6
67.5°	146.2	147.9	164.9	185.4	209.3	221.2	232.6	231.5	240.0	236.6	236.0
70°	112.6	114.3	131.9	153.6	165.5	158.7	193.9	201.9	205.3	208.1	212.7
72.5°	81.3	84.7	98.4	113.7	107.5	123.4	159.8	171.8	176.3	178.0	183.7
75°	59.1	60.3	63.7	59.1	68.2	85.9	112.6	127.4	133.1	134.8	143.3
77.5°	26.2	26.7	27.3	34.1	43.8	53.5	67.1	79.1	87.0	89.3	91.6
80°	13.6	14.2	17.6	23.3	31.3	39.2	48.9	55.7	60.9	61.4	63.7
82.5°	8.5	9.1	12.5	16.5	22.2	29.0	35.8	41.5	45.5	46.1	46.6
85°	4.0	5.1	7.4	10.2	14.8	18.8	19.3	16.5	17.6	18.2	17.1
87.5°	1.1	1.7	2.3	1.7	2.3	2.3	2.8	3.4	3.4	3.4	4.0
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°	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8	639.8
2.5°	650.0	644.9	625.0	617.6	598.3	601.7	591.5	590.9	588.6	588.0	587.5
5°	666.0	650.0	626.2	608.0	597.1	596.0	588.6	588.6	590.9	592.6	588.6
7.5°	692.1	673.9	633.5	616.5	606.8	605.1	600.0	596.0	601.1	599.4	594.9
10°	722.3	690.4	647.8	633.0	617.1	613.1	613.1	614.8	606.2	609.1	604.5
12.5°	755.8	713.2	666.0	648.9	630.1	627.9	626.7	614.2	618.8	616.5	605.1
15°	798.5	739.3	689.3	660.3	644.4	634.1	619.3	617.1	614.2	608.5	603.4
17.5°	844.5	767.8	700.1	663.7	639.8	632.4	621.0	609.1	600.6	601.7	597.7
20°	883.8	793.9	704.1	667.1	636.4	622.2	604.5	597.1	588.0	587.5	586.9
22.5°	930.4	829.2	709.8	658.0	626.2	611.4	599.4	586.3	580.1	572.1	576.1
25°	986.1	842.8	710.9	652.9	618.8	592.6	586.3	572.1	569.9	558.5	560.8
27.5°	1026.5	850.2	701.8	637.0	601.7	581.8	570.4	560.2	556.2	547.7	545.4
30°	1080.6	861.6	682.5	617.1	584.6	562.5	555.6	553.4	542.0	532.9	531.7
32.5°	1142.0	869.0	669.9	596.6	567.0	549.9	553.4	542.6	528.3	520.4	518.1
35°	1190.9	871.8	638.7	573.3	555.1	544.3	540.3	538.0	517.5	510.1	504.4
37.5°	1265.4	865.6	612.5	556.8	542.0	538.0	534.6	519.2	495.9	485.1	477.2
40°	1352.4	863.9	579.0	533.5	529.5	534.0	523.8	499.9	467.5	455.5	449.9
42.5°	1436.0	875.8	557.9	520.9	515.8	517.5	503.3	467.5	451.6	444.7	435.6
45°	1575.9	900.8	523.2	501.6	499.3	498.2	481.1	443.6	434.5	426.0	424.3
47.5°	1702.2	884.3	501.0	481.7	484.0	477.7	441.3	429.4	419.1	410.6	407.8
50°	1709.6	845.1	469.8	466.3	466.9	456.1	421.4	413.5	400.4	394.7	390.7
52.5°	1670.9	780.8	440.8	441.9	443.6	426.0	397.0	391.3	380.5	372.5	370.2
55°	1562.3	680.7	412.3	416.9	421.4	387.9	378.8	364.5	356.0	344.6	345.2
57.5°	1376.3	548.2	372.5	379.9	389.6	352.6	345.8	328.1	315.6	306.5	305.4
60°	922.5	390.1	312.8	315.6	337.2	322.5	321.9	304.3	287.2	279.2	274.7
62.5°	544.3	298.0	270.1	267.3	266.7	275.3	289.5	283.2	261.0	245.7	250.2
65°	284.9	257.6	251.4	241.7	236.0	233.7	244.5	247.4	232.6	216.1	215.0
67.5°	239.4	239.4	234.3	230.9	222.9	213.3	206.4	197.3	195.1	190.5	184.8
70°	217.8	223.5	221.8	213.8	207.0	196.2	178.6	163.8	149.6	144.5	147.9
72.5°	190.0	195.6	195.6	191.7	182.6	166.1	149.0	131.9	120.0	110.9	109.8
75°	146.2	149.0	155.8	151.3	139.3	129.1	111.5	93.8	82.5	73.9	72.2
77.5°	93.3	97.8	97.8	97.2	88.7	79.1	67.7	55.2	46.6	40.4	38.7
80°	62.0	64.8	67.1	64.8	59.1	51.8	43.2	34.7	28.4	23.3	22.2
82.5°	45.5	48.9	50.6	48.3	42.7	37.0	30.7	24.5	18.2	14.2	13.1
85°	17.6	18.2	20.5	24.5	23.9	23.3	18.8	13.6	10.2	7.4	6.8
87.5°	4.5	4.0	4.5	4.5	4.0	3.4	3.4	3.4	3.4	1.7	2.3
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)