

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: P526668

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
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-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4719 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

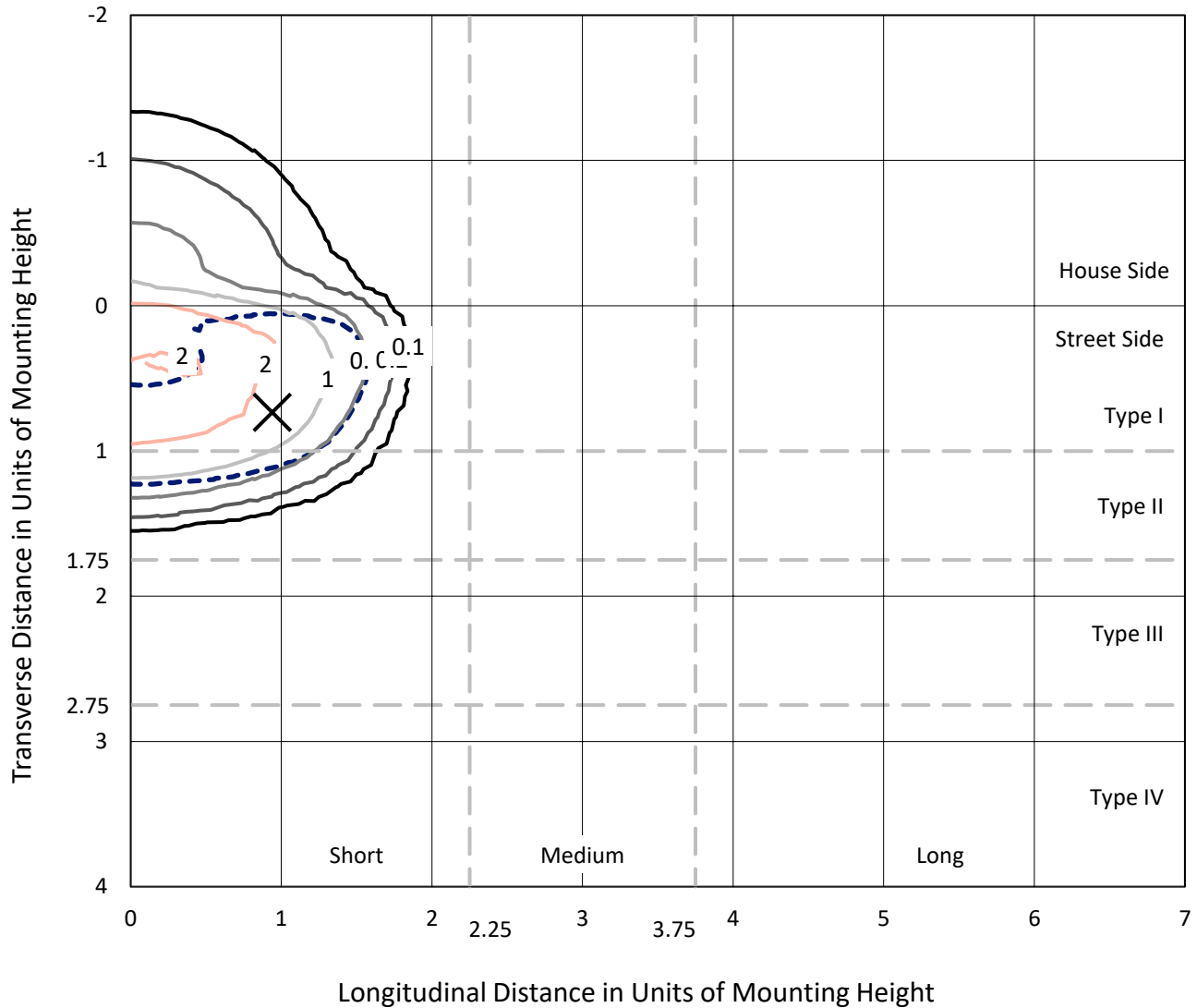
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

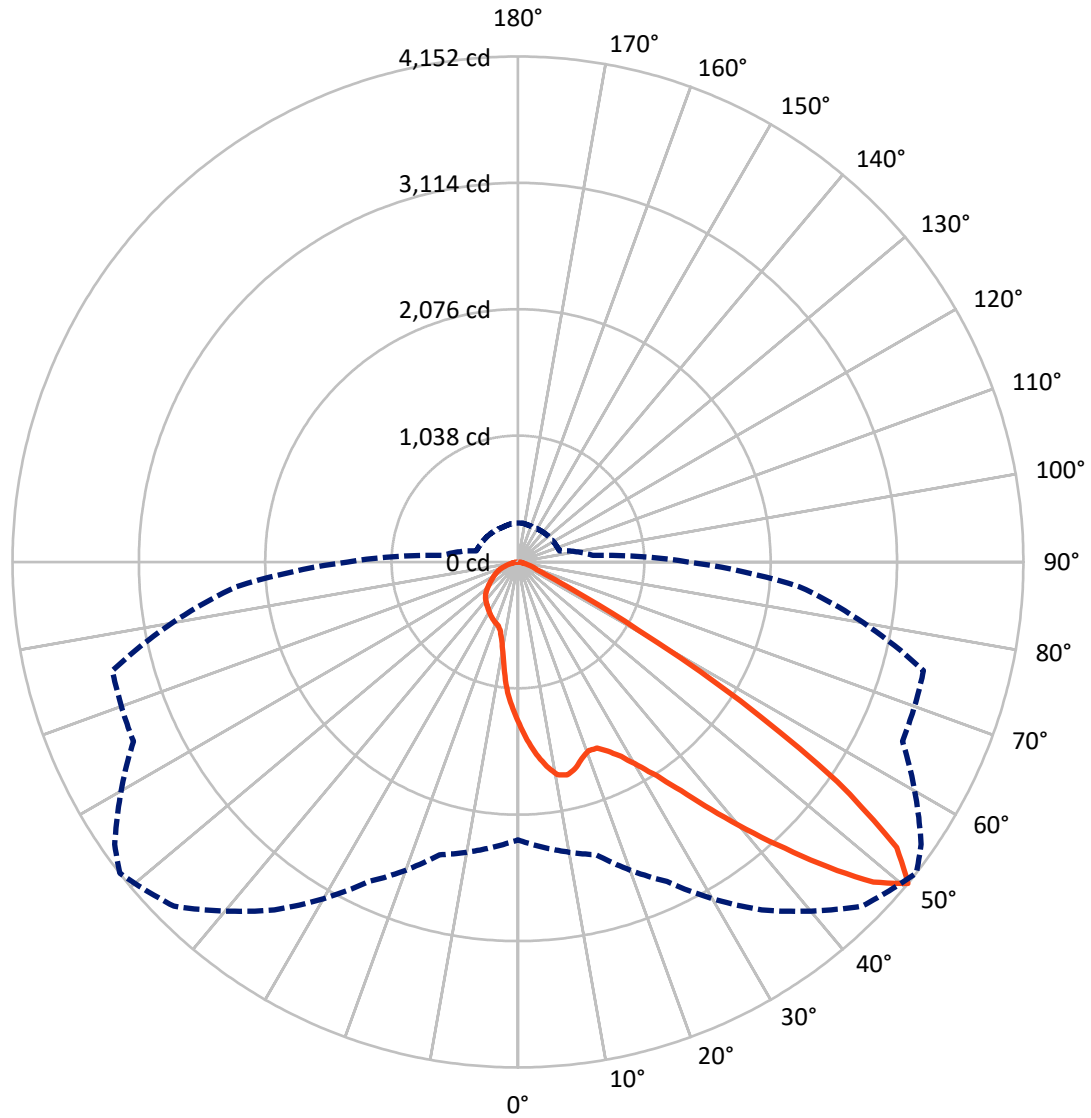
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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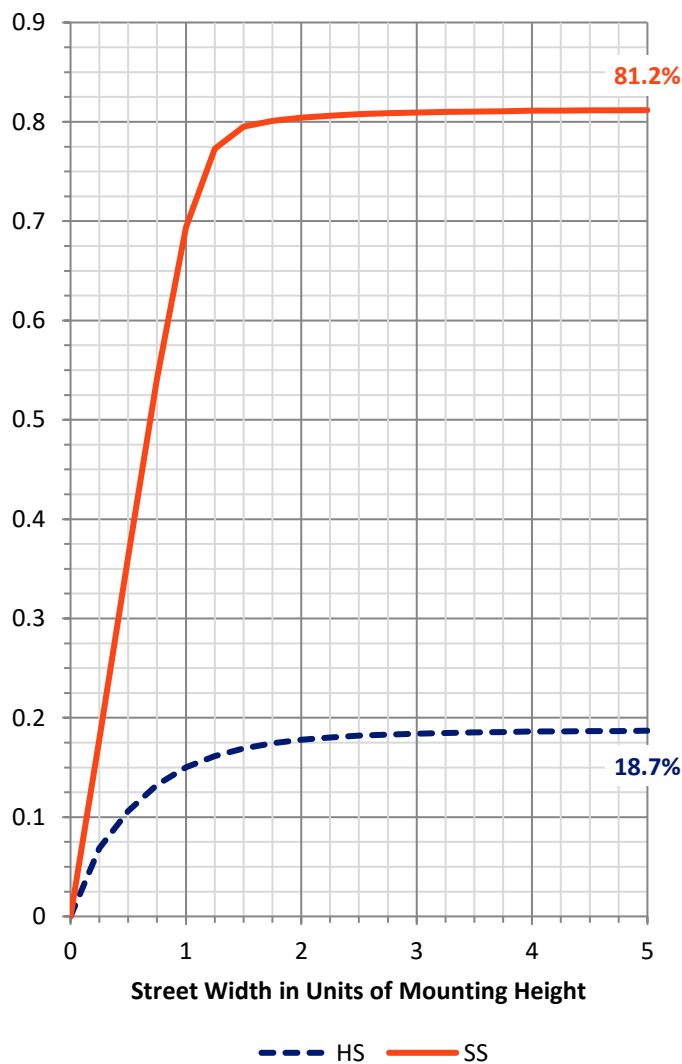
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	887.0	0.0	887.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3831.9	0.0	3831.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4719.0	0.0	4719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	2.6
10°-20°	328.6	7.0
20°-30°	553.5	11.7
30°-40°	928.9	19.7
40°-50°	1420.9	30.1
50°-60°	1036.0	22.0
60°-70°	230.6	4.9
70°-80°	83.2	1.8
80°-90°	14.7	0.3
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°	4719.0	100.0
0°-180°	4719.0	100.0

**Coefficient of Utilization**

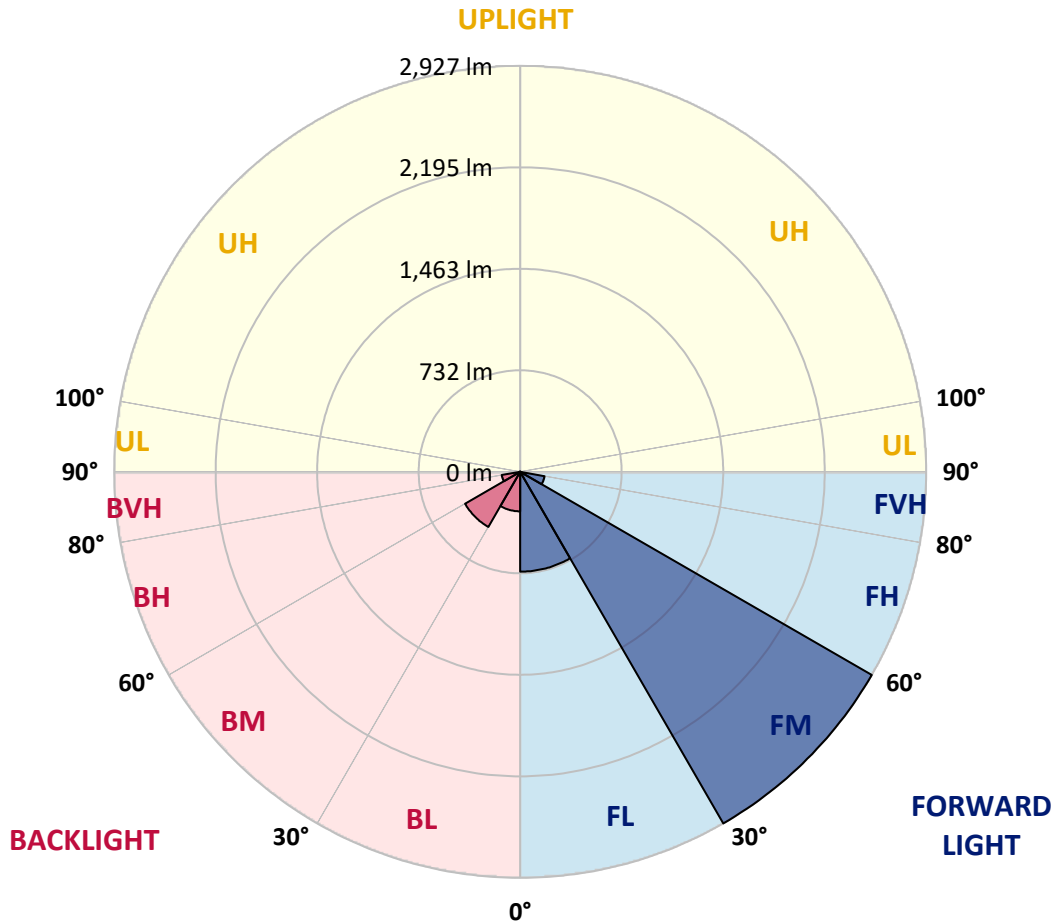


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.8	15.3			
FM (30°-60°)	2927.0	62.0			
FH (60°-80°)	178.6	3.8			G0/660
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	284.9	6.0	B1/500		
BM (30°-60°)	458.8	9.7	B1/1000		
BH (60°-80°)	135.1	2.9	B1/500		G1/500
BVH (80°-90°)	8.1	0.2			G0/10
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°	52°	55°	65°	75°	85°
0°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1566.2	1536.1	1539.5	1517.9	1494.6	1487.7	1463.9	1441.1	1424.0	1387.6	1354.1
5°	1711.8	1702.7	1689.1	1672.0	1654.4	1611.1	1586.7	1558.3	1495.7	1439.4	1383.7
7.5°	1732.9	1731.1	1738.5	1738.5	1744.8	1728.3	1693.6	1673.7	1607.2	1515.6	1412.1
10°	1585.0	1590.1	1625.9	1672.6	1737.4	1782.3	1776.6	1771.5	1698.7	1573.6	1445.7
12.5°	1467.3	1455.9	1476.9	1516.7	1614.0	1722.6	1796.0	1796.5	1777.8	1666.3	1470.1
15°	1400.7	1408.7	1414.4	1433.1	1506.5	1632.2	1761.3	1799.4	1881.9	1731.7	1508.8
17.5°	1443.4	1416.7	1415.5	1420.1	1457.6	1552.0	1697.0	1762.4	1938.7	1815.9	1556.6
20°	1499.1	1498.5	1482.6	1476.9	1476.4	1560.5	1654.9	1743.7	1968.9	1925.1	1604.9
22.5°	1596.9	1596.9	1570.8	1558.3	1531.5	1600.3	1660.6	1720.9	2018.9	2000.1	1628.2
25°	1760.7	1734.0	1689.1	1658.4	1643.0	1667.5	1720.9	1774.9	2062.7	2079.8	1676.6
27.5°	1912.0	1869.9	1847.7	1794.8	1774.4	1760.2	1809.1	1863.7	2113.9	2203.7	1702.7
30°	2083.7	2076.4	2036.5	1968.3	1917.7	1891.5	1936.5	1990.5	2207.7	2330.6	1763.0
32.5°	2390.8	2323.7	2269.7	2186.1	2103.7	2047.9	2092.3	2128.1	2363.6	2463.1	1829.0
35°	2722.4	2700.8	2607.5	2456.8	2330.6	2280.5	2306.7	2333.4	2545.0	2665.5	1939.9
37.5°	3048.3	3018.7	2941.9	2815.1	2661.6	2559.8	2578.5	2609.8	2748.6	2938.5	2075.2
40°	3282.6	3246.2	3207.5	3188.7	3036.3	2897.0	2886.2	2894.2	3023.8	3194.4	2225.4
42.5°	3299.6	3344.6	3356.5	3432.2	3396.3	3282.0	3215.5	3217.2	3286.6	3447.5	2377.2
45°	3263.8	3222.3	3310.4	3516.9	3635.2	3688.6	3576.6	3562.4	3449.2	3594.2	2452.8
47.5°	2887.9	2899.3	3048.3	3374.7	3716.5	3955.4	3929.2	3882.0	3536.2	3589.1	2440.9
50°	2282.8	2351.6	2489.8	2896.4	3489.0	3997.4	4151.6	4042.4	3484.5	3448.1	2319.2
52.5°	1520.2	1548.6	1639.6	2164.5	2805.4	3573.2	3895.6	3920.7	3436.7	3263.2	2165.1
55°	676.8	674.5	802.4	1130.6	1760.2	2719.0	3183.1	3335.5	3253.0	3075.0	2014.9
57.5°	286.6	296.3	348.6	488.5	865.6	1640.7	2156.5	2290.2	2501.7	2525.1	1545.7
60°	193.9	195.1	209.3	244.5	362.3	770.6	1131.2	1291.5	1442.8	1432.6	820.1
62.5°	152.4	156.4	167.2	181.4	215.0	349.8	506.2	595.4	605.1	509.0	311.1
65°	130.2	130.8	141.6	153.6	168.3	203.6	244.0	248.5	251.4	242.3	228.6
67.5°	107.5	108.6	117.2	130.8	144.5	155.8	167.2	172.9	186.0	211.6	208.1
70°	85.3	87.0	94.4	105.8	118.3	125.1	139.3	144.5	156.4	176.3	184.3
72.5°	64.8	65.4	71.7	79.6	91.0	97.8	109.8	115.4	123.4	140.5	147.9
75°	46.6	48.3	52.9	56.9	58.6	63.1	74.5	80.8	92.1	99.5	100.1
77.5°	24.5	25.6	26.7	26.7	32.4	40.9	48.3	51.8	59.7	65.4	62.6
80°	9.7	10.2	13.1	17.6	22.7	29.6	34.7	36.4	43.2	46.6	48.3
82.5°	5.7	6.3	8.5	12.5	16.5	21.0	25.0	26.7	31.3	35.3	36.4
85°	2.8	3.4	5.1	8.0	10.8	13.1	12.5	11.9	11.9	11.4	11.9
87.5°	1.1	1.1	1.7	1.7	1.7	2.3	2.8	2.8	2.8	3.4	3.4
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°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1331.9	1309.2	1288.1	1249.5	1207.4	1195.4	1146.5	1128.9	1116.4	1101.6	1097.0
5°	1338.7	1308.6	1240.9	1163.0	1101.0	1021.4	969.1	912.8	871.8	861.6	858.7
7.5°	1353.0	1301.2	1184.6	1066.9	940.1	832.0	749.6	705.2	666.0	663.7	659.7
10°	1368.9	1279.0	1123.2	938.4	776.3	676.2	626.7	607.4	597.7	595.4	594.3
12.5°	1382.0	1274.5	1054.4	813.3	660.3	600.0	585.2	583.5	587.5	588.6	590.9
15°	1387.6	1256.3	971.4	701.2	588.0	565.9	572.1	578.9	581.8	589.2	583.5
17.5°	1398.5	1233.0	869.0	612.5	547.7	551.6	562.5	570.4	575.0	580.1	572.7
20°	1404.1	1211.9	772.9	559.6	533.4	540.8	555.6	561.9	567.6	569.8	561.3
22.5°	1399.0	1168.7	688.1	517.0	519.8	529.5	542.5	549.4	546.0	536.9	531.7
25°	1385.4	1107.8	600.0	489.7	500.5	517.5	527.8	522.6	516.4	511.3	509.6
27.5°	1384.8	1033.3	536.3	464.6	484.0	507.3	503.9	499.3	502.2	498.2	493.6
30°	1387.6	961.1	484.0	450.4	472.0	483.4	487.4	482.8	486.2	478.9	481.1
32.5°	1372.9	890.6	449.8	433.9	457.8	457.2	470.3	473.7	465.8	450.4	452.7
35°	1379.1	833.7	420.8	426.5	441.9	441.9	452.1	448.1	427.1	418.0	420.3
37.5°	1422.3	778.0	406.6	416.3	426.5	431.1	427.7	410.6	405.5	405.5	406.6
40°	1463.3	730.2	398.1	414.0	412.3	415.2	390.1	391.8	391.8	392.4	389.6
42.5°	1499.7	697.8	391.3	400.4	403.2	388.4	373.1	371.4	375.3	374.8	372.5
45°	1512.8	671.1	381.6	385.0	387.3	362.8	355.4	352.0	356.6	358.3	360.6
47.5°	1462.7	648.9	370.8	364.0	359.4	343.5	333.8	327.6	333.3	342.9	345.2
50°	1398.5	619.9	353.7	340.7	331.0	324.2	317.3	311.1	315.1	321.9	320.2
52.5°	1303.5	574.4	332.1	318.5	302.0	303.7	297.4	294.0	296.3	296.3	294.6
55°	1168.1	472.0	295.7	286.1	272.4	277.0	278.1	273.5	269.0	273.0	269.6
57.5°	797.3	333.3	263.9	263.9	250.2	256.5	255.9	245.1	234.3	235.4	233.2
60°	461.2	265.6	243.4	241.1	226.9	232.0	233.2	225.8	209.3	210.4	208.1
62.5°	262.2	226.9	212.7	209.3	206.4	211.0	211.0	201.3	187.1	188.2	186.0
65°	222.9	210.4	189.9	189.4	188.2	189.4	184.8	174.6	162.1	157.0	157.5
67.5°	202.5	194.5	174.6	169.5	166.1	165.5	157.0	147.3	141.6	137.1	136.5
70°	177.4	171.2	156.4	149.6	146.2	138.2	129.7	123.4	115.4	113.2	115.4
72.5°	140.5	139.9	134.2	126.8	119.4	113.2	105.8	97.2	89.9	88.1	84.2
75°	97.2	98.4	99.5	98.4	92.1	84.2	75.6	68.8	59.7	54.6	53.5
77.5°	63.7	65.4	67.1	64.8	60.9	53.5	47.8	39.2	32.4	28.4	27.9
80°	46.6	48.9	50.0	48.3	43.8	38.1	31.8	25.0	19.9	16.5	16.5
82.5°	35.8	38.1	39.2	36.4	31.8	27.3	22.7	17.6	13.6	10.8	10.2
85°	12.5	11.9	14.2	14.8	17.6	16.5	13.6	10.2	8.0	5.7	5.1
87.5°	3.4	3.4	4.0	4.0	3.4	2.8	2.8	2.8	2.3	1.7	1.7
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)