

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: P646713

Luminaire Tested: **GALN-SA1C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646713  
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-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 5026.1 lumens  
Efficiency: N/A  
Efficacy: 88.2 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

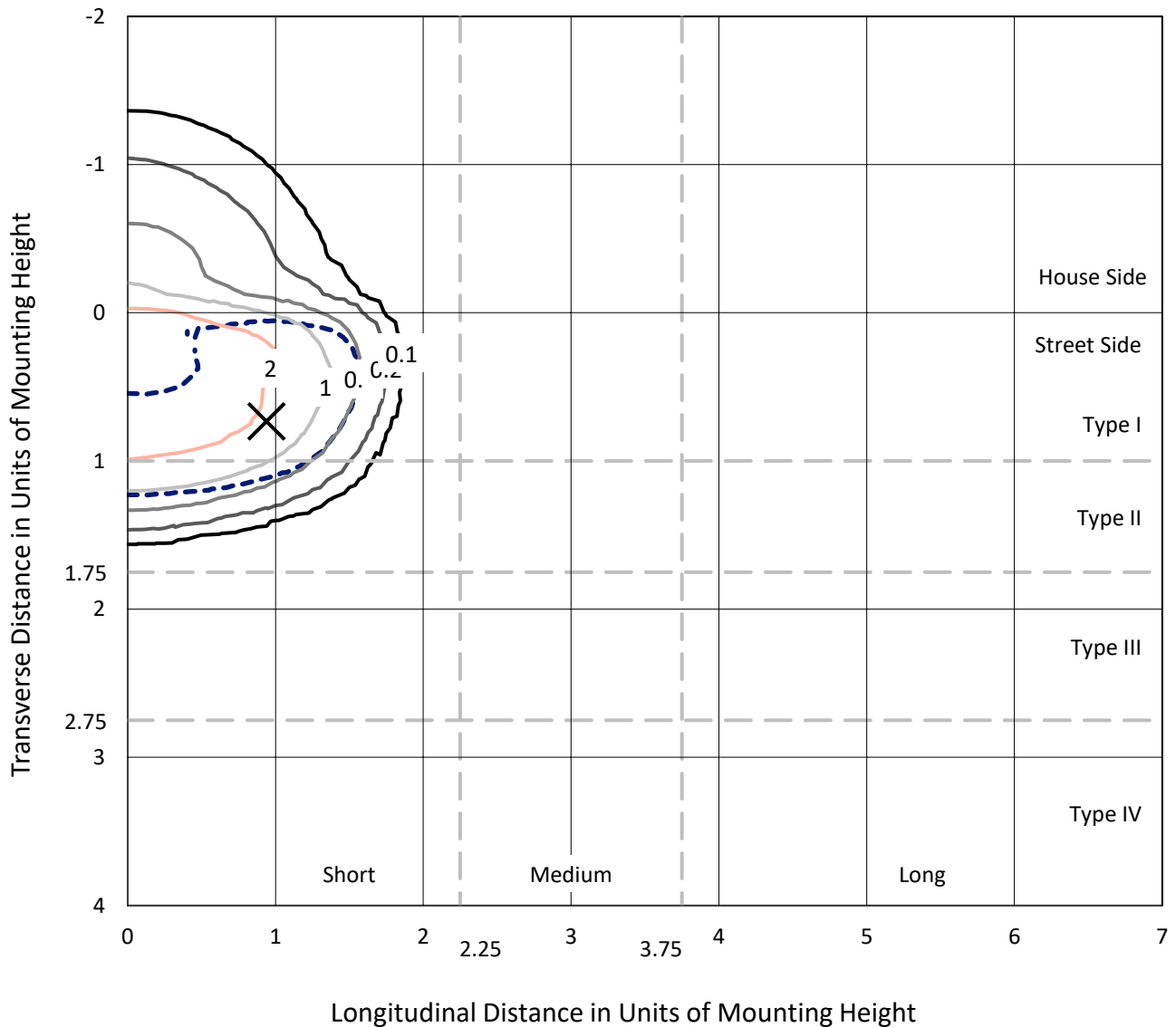
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646713  
 CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

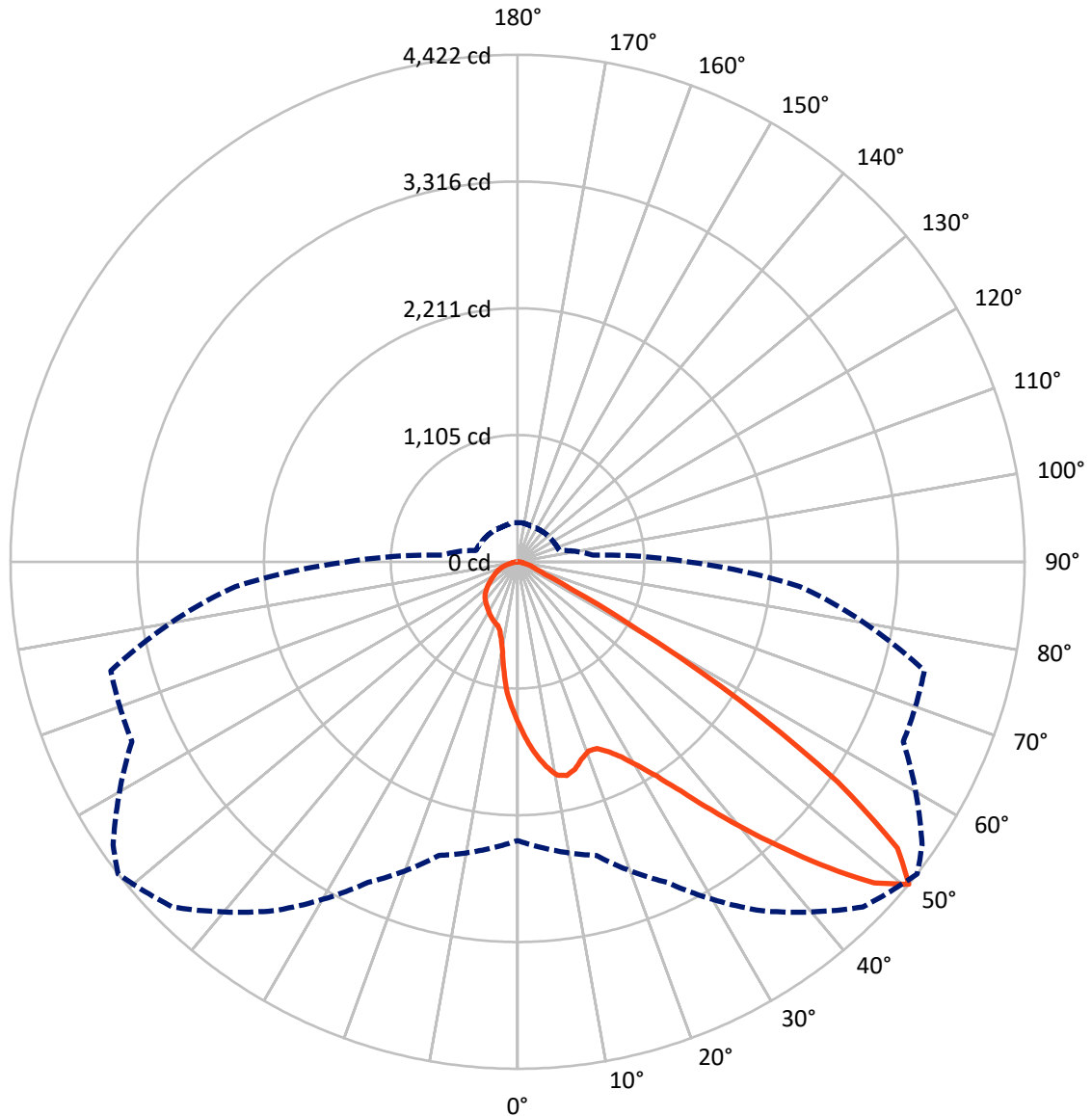
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P646713  
CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P646713  
 CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	944.8	0.0	944.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4081.3	0.0	4081.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5026.1	0.0	5026.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	2.6
10°-20°	350.0	7.0
20°-30°	589.6	11.7
30°-40°	989.3	19.7
40°-50°	1513.4	30.1
50°-60°	1103.4	22.0
60°-70°	245.6	4.9
70°-80°	88.6	1.8
80°-90°	15.7	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°	5026.1	100.0
0°-180°	5026.1	100.0

**Coefficient of Utilization**

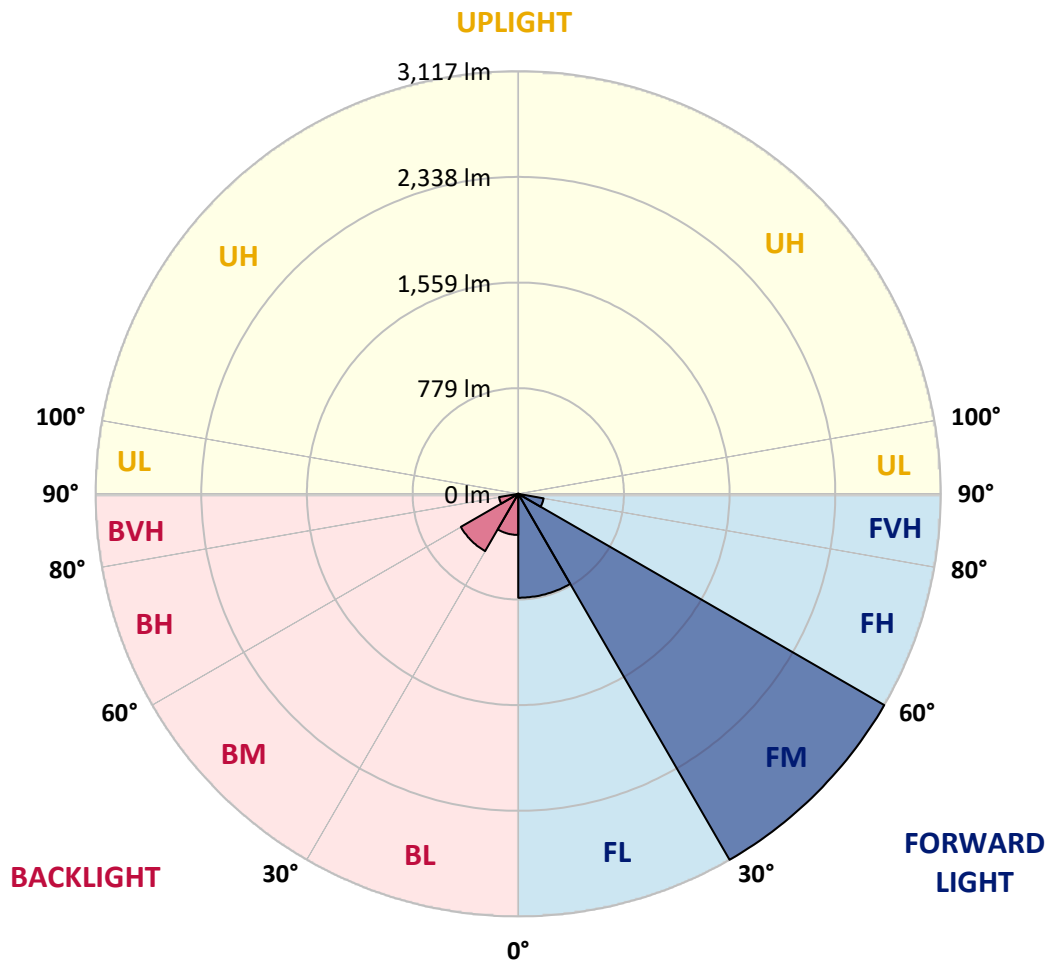


REPORT NUMBER: P646713  
 CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.6	15.3			
FM (30°-60°)	3117.4	62.0			
FH (60°-80°)	190.2	3.8			G0/660
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	303.5	6.0	B1/500		
BM (30°-60°)	488.7	9.7	B1/1000		
BH (60°-80°)	143.9	2.9	B1/500		G1/500
BVH (80°-90°)	8.7	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





REPORT NUMBER: P646713

CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8
2.5°	1668.1	1636.0	1639.7	1616.7	1591.8	1584.6	1559.1	1534.9	1516.7	1477.9	1442.2
5°	1823.2	1813.5	1798.9	1780.8	1762.1	1716.0	1689.9	1659.6	1593.0	1533.0	1473.7
7.5°	1845.6	1843.8	1851.6	1851.6	1858.4	1840.8	1803.8	1782.7	1711.7	1614.2	1504.0
10°	1688.1	1693.6	1731.8	1781.4	1850.5	1898.3	1892.3	1886.8	1809.3	1676.0	1539.7
12.5°	1562.7	1550.7	1573.0	1615.4	1719.0	1834.7	1912.9	1913.4	1893.5	1774.7	1565.8
15°	1491.8	1500.4	1506.4	1526.4	1604.5	1738.4	1875.9	1916.5	2004.3	1844.4	1607.0
17.5°	1537.3	1508.8	1507.6	1512.4	1552.5	1653.0	1807.5	1877.1	2064.8	1934.0	1657.8
20°	1596.7	1596.1	1579.1	1573.0	1572.4	1662.1	1762.6	1857.1	2097.0	2050.4	1709.4
22.5°	1700.8	1700.8	1673.0	1659.6	1631.2	1704.5	1768.7	1832.9	2150.3	2130.3	1734.2
25°	1875.3	1846.9	1798.9	1766.3	1749.9	1775.9	1832.9	1890.5	2196.9	2215.1	1785.6
27.5°	2036.4	1991.6	1968.0	1911.6	1889.8	1874.7	1926.8	1984.9	2251.4	2347.1	1813.5
30°	2219.3	2211.5	2169.1	2096.4	2042.5	2014.6	2062.4	2120.0	2351.3	2482.2	1877.7
32.5°	2546.4	2475.0	2417.4	2328.4	2240.6	2181.2	2228.4	2266.6	2517.3	2623.4	1947.9
35°	2899.5	2876.5	2777.2	2616.7	2482.2	2428.9	2456.8	2485.2	2710.6	2839.0	2066.1
37.5°	3246.6	3215.2	3133.3	2998.3	2834.8	2726.3	2746.3	2779.6	2927.4	3129.7	2210.3
40°	3496.2	3457.4	3416.2	3396.3	3233.9	3085.5	3074.0	3082.5	3220.6	3402.3	2370.1
42.5°	3514.3	3562.2	3574.9	3655.5	3617.3	3495.5	3424.7	3426.6	3500.4	3671.9	2531.9
45°	3476.2	3432.0	3525.8	3745.7	3871.7	3928.7	3809.4	3794.2	3673.7	3828.1	2612.5
47.5°	3075.9	3087.9	3246.6	3594.3	3958.4	4212.8	4184.9	4134.6	3766.3	3822.7	2599.7
50°	2431.4	2504.7	2651.8	3084.9	3716.0	4257.6	4421.8	4305.4	3711.2	3672.4	2470.1
52.5°	1619.1	1649.4	1746.2	2305.4	2988.0	3805.7	4149.1	4175.8	3660.4	3475.6	2305.9
55°	720.8	718.4	854.6	1204.2	1874.7	2895.9	3390.2	3552.5	3464.7	3275.1	2146.0
57.5°	305.3	315.5	371.3	520.3	921.9	1747.5	2296.9	2439.2	2664.5	2689.4	1646.3
60°	206.6	207.7	222.9	260.4	385.9	820.7	1204.8	1375.6	1536.7	1525.8	873.4
62.5°	162.3	166.5	178.1	193.2	228.9	372.6	539.1	634.2	644.5	542.1	331.3
65°	138.7	139.3	150.8	163.6	179.3	216.8	259.9	264.7	267.7	258.0	243.5
67.5°	114.5	115.7	124.8	139.3	153.9	166.0	178.1	184.2	198.1	225.3	221.7
70°	90.8	92.7	100.5	112.7	126.0	133.3	148.4	153.9	166.5	187.8	196.2
72.5°	69.1	69.7	76.3	84.8	96.9	104.2	116.9	122.9	131.5	149.6	157.5
75°	49.6	51.5	56.3	60.6	62.4	67.3	79.3	86.0	98.1	106.0	106.6
77.5°	26.1	27.2	28.5	28.5	34.5	43.6	51.5	55.1	63.6	69.7	66.6
80°	10.3	10.9	13.9	18.8	24.2	31.5	37.0	38.8	46.0	49.6	51.5
82.5°	6.0	6.7	9.1	13.3	17.5	22.4	26.6	28.5	33.3	37.6	38.8
85°	3.1	3.6	5.5	8.5	11.5	13.9	13.3	12.7	12.7	12.1	12.7
87.5°	1.2	1.2	1.8	1.8	1.8	2.4	3.1	3.1	3.1	3.6	3.6
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: P646713

CATALOG NUMBER: GALN-SA1C-835-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8	1416.8
2.5°	1418.6	1394.4	1372.0	1330.8	1285.9	1273.2	1221.1	1202.4	1189.0	1173.2	1168.4
5°	1425.8	1393.7	1321.7	1238.7	1172.7	1087.9	1032.2	972.2	928.6	917.7	914.6
7.5°	1441.0	1385.9	1261.7	1136.3	1001.2	886.2	798.3	751.1	709.3	706.9	702.7
10°	1457.9	1362.3	1196.3	999.4	826.8	720.2	667.5	646.9	636.6	634.2	633.0
12.5°	1471.9	1357.4	1123.0	866.2	703.2	639.0	623.3	621.5	625.7	626.9	629.4
15°	1477.9	1338.0	1034.6	746.8	626.3	602.7	609.3	616.6	619.7	627.5	621.5
17.5°	1489.4	1313.2	925.5	652.3	583.3	587.6	599.1	607.5	612.4	617.9	610.0
20°	1495.5	1290.8	823.2	596.0	568.1	576.1	591.8	598.4	604.5	606.9	597.8
22.5°	1490.0	1244.7	732.9	550.6	553.7	563.9	577.9	585.1	581.5	571.8	566.3
25°	1475.5	1179.9	639.0	521.6	533.1	551.2	562.1	556.6	550.0	544.6	542.7
27.5°	1474.9	1100.6	571.2	494.9	515.4	540.3	536.7	531.8	534.9	530.6	525.8
30°	1477.9	1023.7	515.4	479.7	502.8	514.8	519.1	514.3	517.9	510.0	512.5
32.5°	1462.2	948.5	479.1	462.1	487.6	487.0	501.0	504.6	496.1	479.7	482.2
35°	1468.8	888.0	448.3	454.3	470.7	470.7	481.5	477.3	454.9	445.2	447.6
37.5°	1514.9	828.6	433.1	443.4	454.3	459.2	455.5	437.3	431.9	431.9	433.1
40°	1558.5	777.8	424.0	441.0	439.1	442.2	415.5	417.3	417.3	418.0	414.9
42.5°	1597.2	743.2	416.7	426.4	429.5	413.7	397.4	395.5	399.8	399.2	396.7
45°	1611.2	714.7	406.5	410.1	412.5	386.4	378.6	374.9	379.8	381.6	384.1
47.5°	1557.9	691.2	394.9	387.7	382.8	365.8	355.6	348.9	354.9	365.3	367.7
50°	1489.4	660.2	376.8	362.8	352.5	345.2	338.0	331.3	335.6	342.8	341.0
52.5°	1388.3	611.8	353.8	339.2	321.7	323.5	316.8	313.1	315.5	315.5	313.7
55°	1244.1	502.8	315.0	304.7	290.1	295.0	296.2	291.4	286.5	290.7	287.1
57.5°	849.2	354.9	281.0	281.0	266.5	273.2	272.6	261.1	249.5	250.8	248.4
60°	491.3	282.9	259.3	256.8	241.7	247.1	248.4	240.5	222.9	224.1	221.7
62.5°	279.2	241.7	226.5	222.9	219.9	224.7	224.7	214.4	199.3	200.5	198.1
65°	237.4	224.1	202.3	201.7	200.5	201.7	196.8	186.0	172.7	167.2	167.8
67.5°	215.6	207.2	186.0	180.5	176.9	176.3	167.2	156.9	150.8	146.0	145.4
70°	189.0	182.3	166.5	159.3	155.7	147.2	138.1	131.5	122.9	120.5	122.9
72.5°	149.6	149.0	143.0	135.1	127.2	120.5	112.7	103.6	95.7	93.9	89.7
75°	103.6	104.8	106.0	104.8	98.1	89.7	80.6	73.3	63.6	58.2	56.9
77.5°	67.8	69.7	71.5	69.1	64.8	56.9	50.9	41.8	34.5	30.3	29.7
80°	49.6	52.1	53.3	51.5	46.7	40.6	33.9	26.6	21.2	17.5	17.5
82.5°	38.1	40.6	41.8	38.8	33.9	29.0	24.2	18.8	14.6	11.5	10.9
85°	13.3	12.7	15.1	15.7	18.8	17.5	14.6	10.9	8.5	6.0	5.5
87.5°	3.6	3.6	4.2	4.2	3.6	3.1	3.1	3.1	2.4	1.8	1.8
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)