

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: P526512

Luminaire Tested: **GALN-SA1C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526512
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 5369 lumens
Efficiency: N/A
Efficacy: 94.2 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

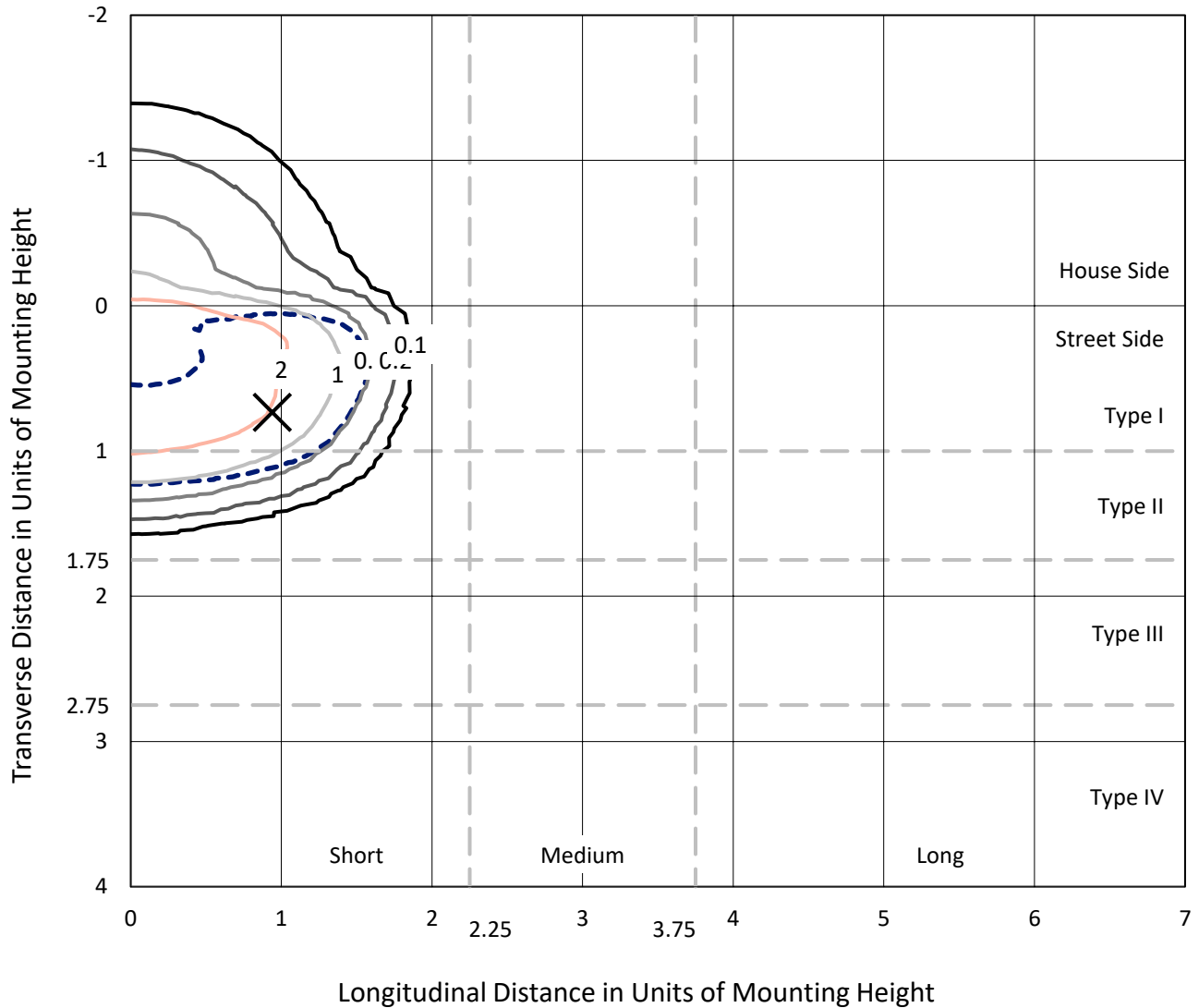
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

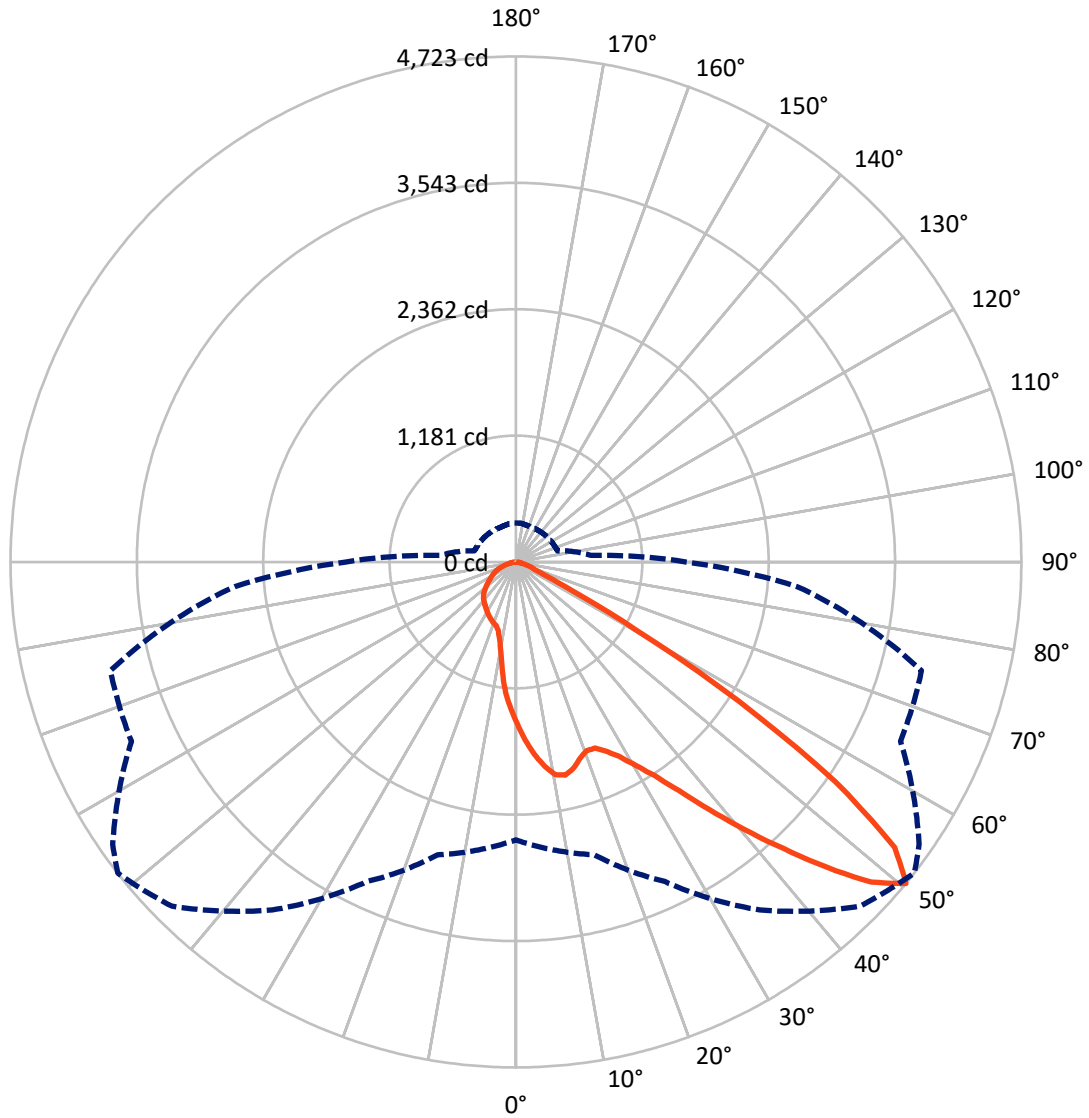
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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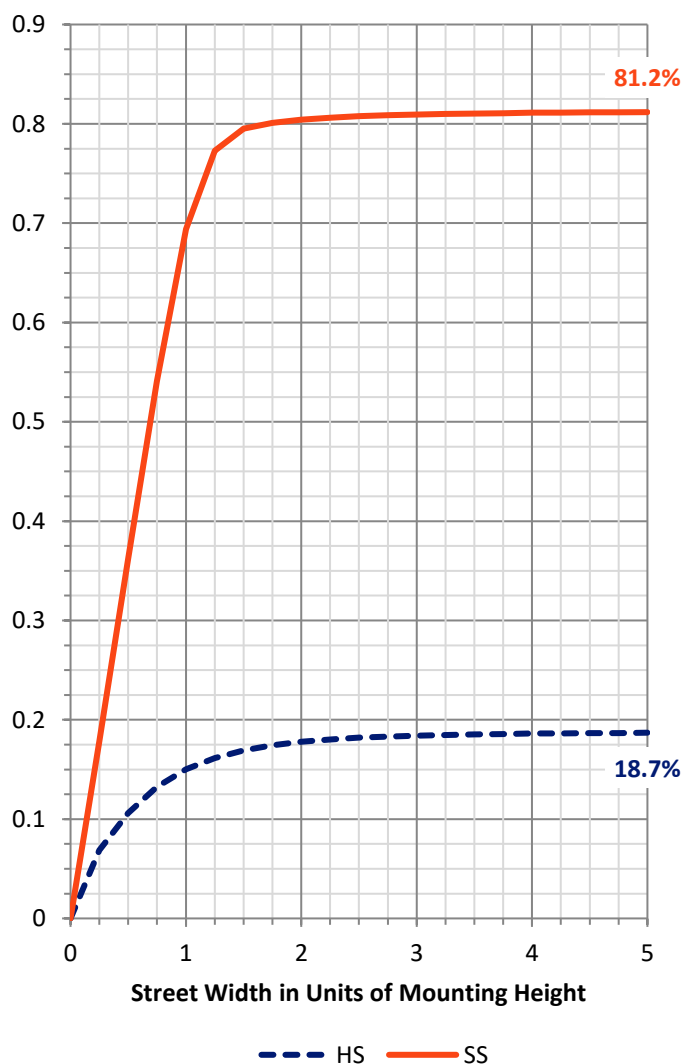
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1009.2	0.0	1009.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4359.7	0.0	4359.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	5369.0	0.0	5369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	2.6
10°-20°	373.9	7.0
20°-30°	629.8	11.7
30°-40°	1056.8	19.7
40°-50°	1616.7	30.1
50°-60°	1178.7	22.0
60°-70°	262.3	4.9
70°-80°	94.6	1.8
80°-90°	16.7	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°	5369.0	100.0
0°-180°	5369.0	100.0

Coefficient of Utilization



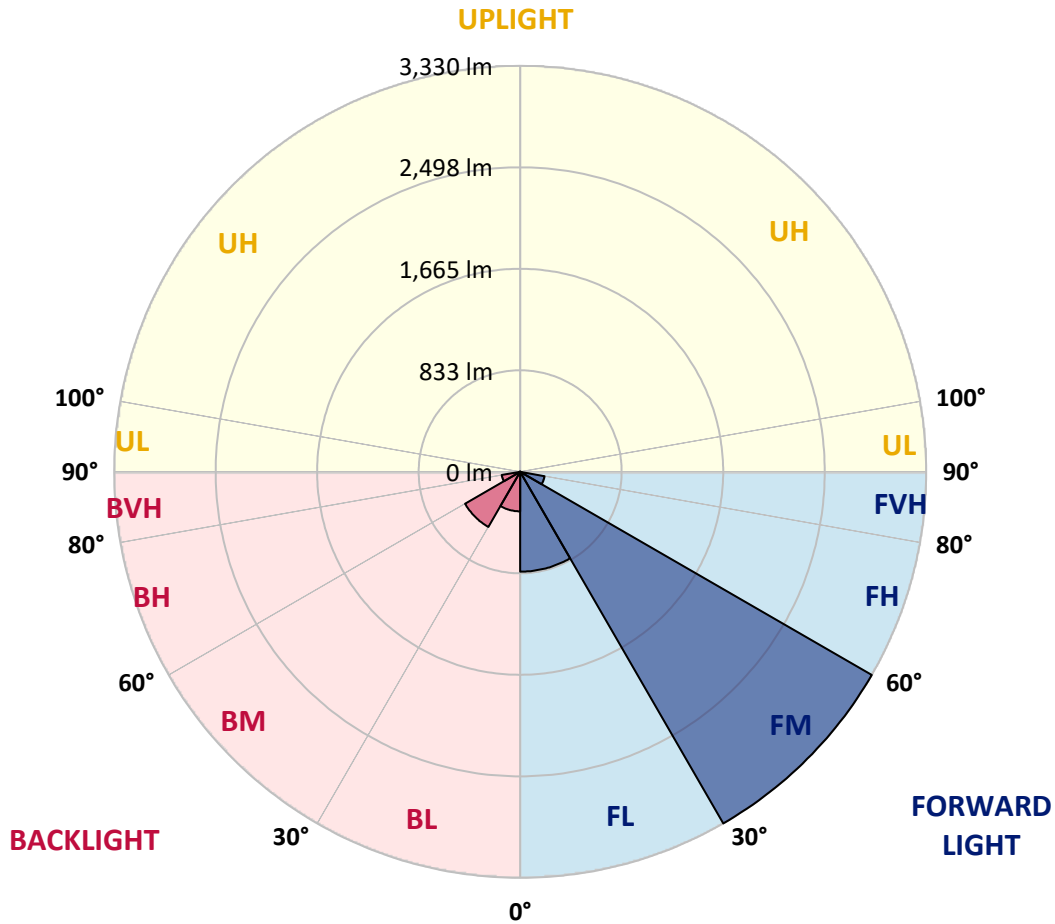
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.0	15.3			
FM (30°-60°)	3330.1	62.0			
FH (60°-80°)	203.2	3.8			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	324.2	6.0	B1/500		
BM (30°-60°)	522.1	9.7	B1/1000		
BH (60°-80°)	153.8	2.9	B1/500		G1/500
BVH (80°-90°)	9.2	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°	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1782.0	1747.7	1751.5	1727.0	1700.4	1692.7	1665.5	1639.6	1620.2	1578.8	1540.6
5°	1947.6	1937.2	1921.7	1902.3	1882.2	1833.1	1805.2	1772.9	1701.7	1637.7	1574.3
7.5°	1971.5	1969.6	1978.0	1978.0	1985.1	1966.4	1926.9	1904.2	1828.5	1724.4	1606.6
10°	1803.3	1809.1	1849.9	1903.0	1976.7	2027.8	2021.4	2015.5	1932.7	1790.4	1644.8
12.5°	1669.4	1656.4	1680.4	1725.7	1836.3	1959.9	2043.4	2044.0	2022.7	1895.8	1672.6
15°	1593.7	1602.7	1609.2	1630.5	1714.0	1857.0	2003.9	2047.2	2141.1	1970.2	1716.6
17.5°	1642.2	1611.8	1610.5	1615.7	1658.4	1765.8	1930.8	2005.2	2205.8	2066.0	1771.0
20°	1705.6	1705.0	1686.8	1680.4	1679.7	1775.5	1882.9	1983.8	2240.1	2190.2	1826.0
22.5°	1816.9	1816.9	1787.1	1772.9	1742.5	1820.8	1889.4	1958.0	2297.0	2275.6	1852.5
25°	2003.2	1972.8	1921.7	1886.8	1869.3	1897.1	1958.0	2019.4	2346.8	2366.2	1907.5
27.5°	2175.4	2127.5	2102.2	2042.1	2018.8	2002.6	2058.2	2120.4	2405.1	2507.3	1937.2
30°	2370.8	2362.4	2317.1	2239.4	2181.8	2152.1	2203.2	2264.6	2511.8	2651.6	2005.8
32.5°	2720.2	2643.8	2582.3	2487.2	2393.4	2330.0	2380.5	2421.2	2689.1	2802.3	2080.9
35°	3097.4	3072.8	2966.7	2795.2	2651.6	2594.6	2624.4	2654.8	2895.5	3032.7	2207.1
37.5°	3468.1	3434.5	3347.2	3202.9	3028.2	2912.3	2933.7	2969.3	3127.2	3343.3	2361.1
40°	3734.7	3693.3	3649.3	3628.0	3454.6	3296.0	3283.7	3292.8	3440.3	3634.4	2531.9
42.5°	3754.1	3805.3	3818.8	3904.9	3864.1	3734.1	3658.4	3660.3	3739.3	3922.4	2704.6
45°	3713.4	3666.1	3766.4	4001.3	4135.9	4196.7	4069.2	4053.1	3924.3	4089.3	2790.7
47.5°	3285.7	3298.6	3468.1	3839.5	4228.4	4500.2	4470.4	4416.7	4023.3	4083.5	2777.1
50°	2597.2	2675.5	2832.8	3295.4	3969.6	4548.1	4723.4	4599.2	3964.4	3923.0	2638.6
52.5°	1729.5	1761.9	1865.4	2462.6	3191.9	4065.4	4432.2	4460.7	3910.1	3712.7	2463.3
55°	770.0	767.4	913.0	1286.3	2002.6	3093.5	3621.5	3794.9	3701.1	3498.6	2292.5
57.5°	326.1	337.1	396.6	555.8	984.8	1866.7	2453.6	2605.6	2846.3	2872.9	1758.7
60°	220.6	221.9	238.1	278.2	412.2	876.7	1287.0	1469.4	1641.5	1629.9	933.0
62.5°	173.4	177.9	190.2	206.4	244.6	397.9	575.9	677.5	688.5	579.1	353.9
65°	148.2	148.8	161.1	174.7	191.5	231.6	277.6	282.8	286.0	275.6	260.1
67.5°	122.3	123.6	133.3	148.8	164.3	177.3	190.2	196.7	211.6	240.7	236.8
70°	97.1	99.0	107.4	120.3	134.6	142.3	158.5	164.3	177.9	200.6	209.6
72.5°	73.8	74.4	81.5	90.6	103.5	111.3	124.9	131.3	140.4	159.8	168.2
75°	53.1	55.0	60.2	64.7	66.6	71.8	84.8	91.9	104.8	113.2	113.9
77.5°	27.8	29.1	30.4	30.4	36.9	46.6	55.0	58.9	67.9	74.4	71.2
80°	11.0	11.6	14.9	20.1	25.9	33.6	39.5	41.4	49.2	53.1	55.0
82.5°	6.5	7.1	9.7	14.2	18.8	23.9	28.5	30.4	35.6	40.1	41.4
85°	3.2	3.9	5.8	9.1	12.3	14.9	14.2	13.6	13.6	12.9	13.6
87.5°	1.3	1.3	1.9	1.9	1.9	2.6	3.2	3.2	3.2	3.9	3.9
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°	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1515.4	1489.5	1465.6	1421.6	1373.7	1360.1	1304.4	1284.4	1270.1	1253.3	1248.1
5°	1523.1	1488.8	1411.8	1323.2	1252.7	1162.1	1102.6	1038.5	991.9	980.3	977.0
7.5°	1539.3	1480.4	1347.8	1213.9	1069.6	946.6	852.8	802.3	757.7	755.1	750.6
10°	1557.4	1455.2	1277.9	1067.6	883.2	769.3	713.0	691.0	680.0	677.5	676.2
12.5°	1572.3	1450.0	1199.6	925.3	751.2	682.6	665.8	663.9	668.4	669.7	672.3
15°	1578.8	1429.3	1105.1	797.8	669.0	643.8	650.9	658.7	661.9	670.3	663.9
17.5°	1591.1	1402.8	988.7	696.9	623.1	627.6	639.9	649.0	654.2	660.0	651.6
20°	1597.5	1378.8	879.3	636.7	606.9	615.3	632.2	639.3	645.7	648.3	638.6
22.5°	1591.7	1329.7	782.9	588.2	591.4	602.4	617.3	625.0	621.2	610.8	605.0
25°	1576.2	1260.4	682.6	557.1	569.4	588.8	600.5	594.6	587.5	581.7	579.7
27.5°	1575.5	1175.7	610.2	528.6	550.6	577.2	573.3	568.1	571.3	566.8	561.6
30°	1578.8	1093.5	550.6	512.5	537.0	550.0	554.5	549.3	553.2	544.8	547.4
32.5°	1562.0	1013.3	511.8	493.7	520.9	520.2	535.1	539.0	529.9	512.5	515.0
35°	1569.1	948.6	478.8	485.3	502.8	502.8	514.4	509.9	485.9	475.6	478.2
37.5°	1618.3	885.2	462.6	473.6	485.3	490.5	486.6	467.2	461.3	461.3	462.6
40°	1664.8	830.8	452.9	471.0	469.1	472.3	443.9	445.8	445.8	446.5	443.2
42.5°	1706.3	793.9	445.2	455.5	458.8	441.9	424.5	422.5	427.0	426.4	423.8
45°	1721.1	763.5	434.2	438.0	440.6	412.8	404.4	400.5	405.7	407.6	410.2
47.5°	1664.2	738.3	421.9	414.1	408.9	390.8	379.8	372.7	379.2	390.2	392.8
50°	1591.1	705.3	402.5	387.6	376.6	368.8	361.0	353.9	358.5	366.2	364.3
52.5°	1483.0	653.5	377.9	362.3	343.6	345.5	338.4	334.5	337.1	337.1	335.2
55°	1329.0	537.0	336.5	325.5	309.9	315.1	316.4	311.2	306.1	310.6	306.7
57.5°	907.2	379.2	300.2	300.2	284.7	291.8	291.2	278.9	266.6	267.9	265.3
60°	524.8	302.2	276.9	274.3	258.2	264.0	265.3	256.9	238.1	239.4	236.8
62.5°	298.3	258.2	242.0	238.1	234.9	240.1	240.1	229.1	212.9	214.2	211.6
65°	253.6	239.4	216.1	215.5	214.2	215.5	210.3	198.6	184.4	178.6	179.2
67.5°	230.3	221.3	198.6	192.8	188.9	188.3	178.6	167.6	161.1	155.9	155.3
70°	201.9	194.8	177.9	170.2	166.3	157.2	147.5	140.4	131.3	128.8	131.3
72.5°	159.8	159.2	152.7	144.3	135.9	128.8	120.3	110.6	102.2	100.3	95.8
75°	110.6	111.9	113.2	111.9	104.8	95.8	86.1	78.3	67.9	62.1	60.8
77.5°	72.5	74.4	76.4	73.8	69.2	60.8	54.4	44.6	36.9	32.4	31.7
80°	53.1	55.6	56.9	55.0	49.8	43.4	36.2	28.5	22.6	18.8	18.8
82.5°	40.8	43.4	44.6	41.4	36.2	31.1	25.9	20.1	15.5	12.3	11.6
85°	14.2	13.6	16.2	16.8	20.1	18.8	15.5	11.6	9.1	6.5	5.8
87.5°	3.9	3.9	4.5	4.5	3.9	3.2	3.2	3.2	2.6	1.9	1.9
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)