

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: P526829

Luminaire Tested: **GALN-SA1D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4577 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

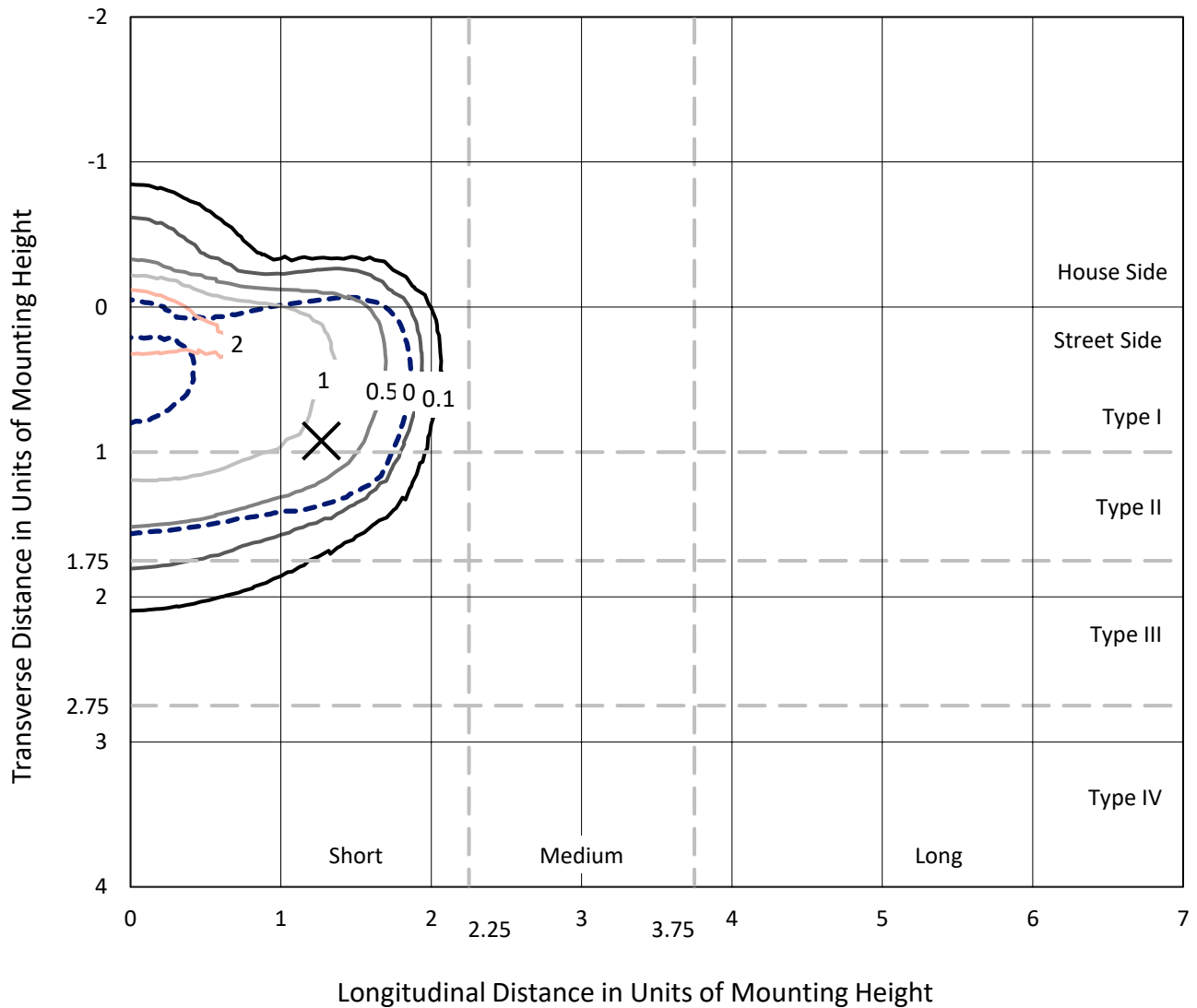
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

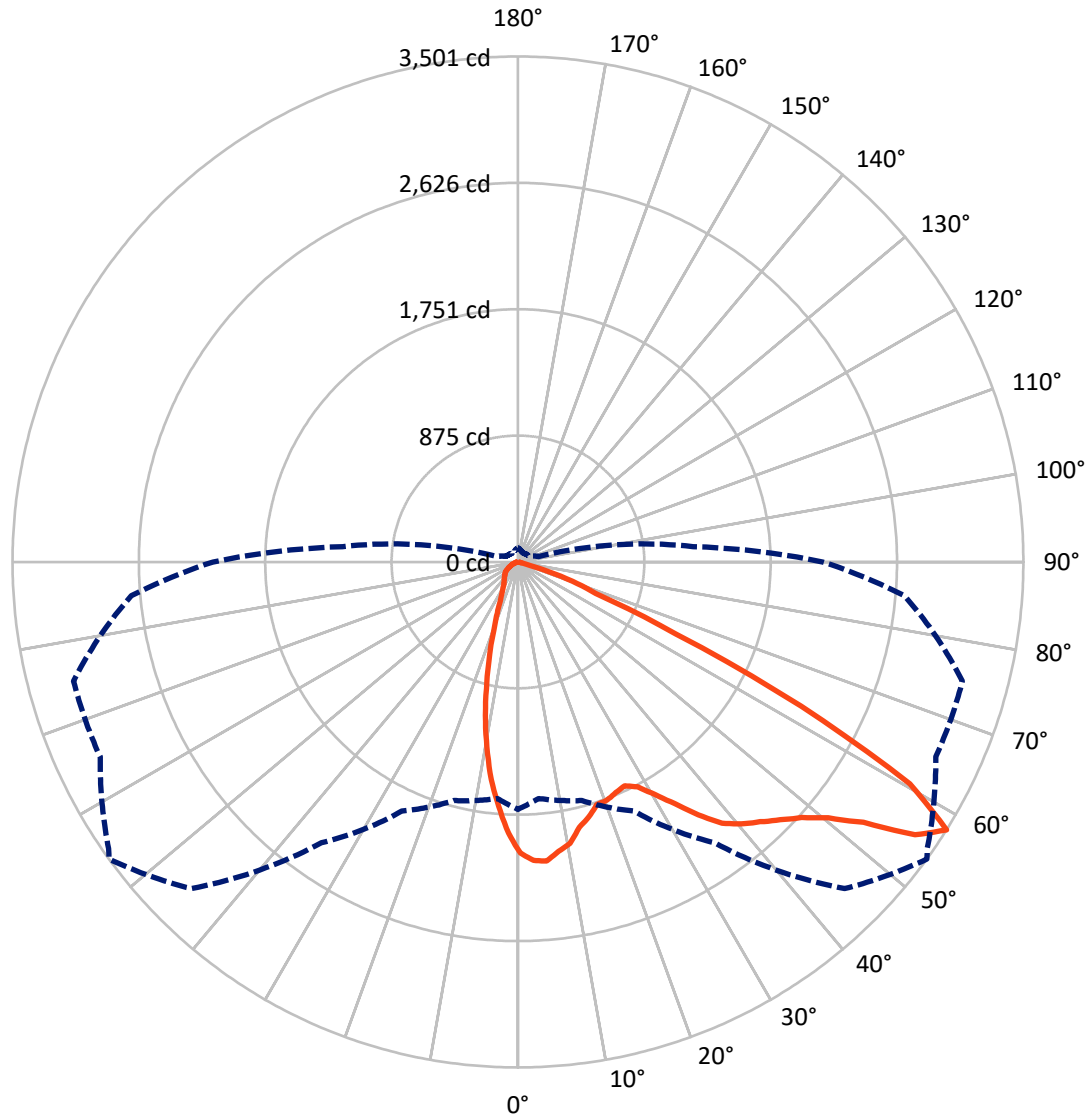
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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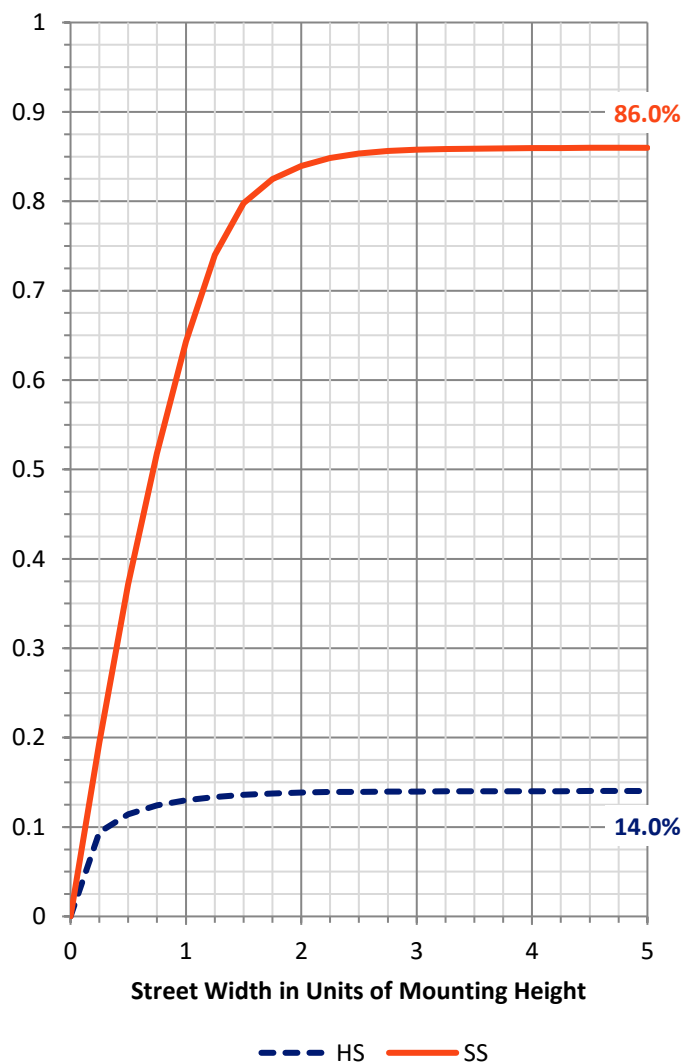
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.8	0.0	646.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3930.2	0.0	3930.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	4577.0	0.0	4577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.7
10°-20°	360.2	7.9
20°-30°	477.4	10.4
30°-40°	693.7	15.2
40°-50°	1028.7	22.5
50°-60°	1286.4	28.1
60°-70°	507.4	11.1
70°-80°	50.5	1.1
80°-90°	3.9	0.1
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°	4577.0	100.0
0°-180°	4577.0	100.0

Coefficient of Utilization

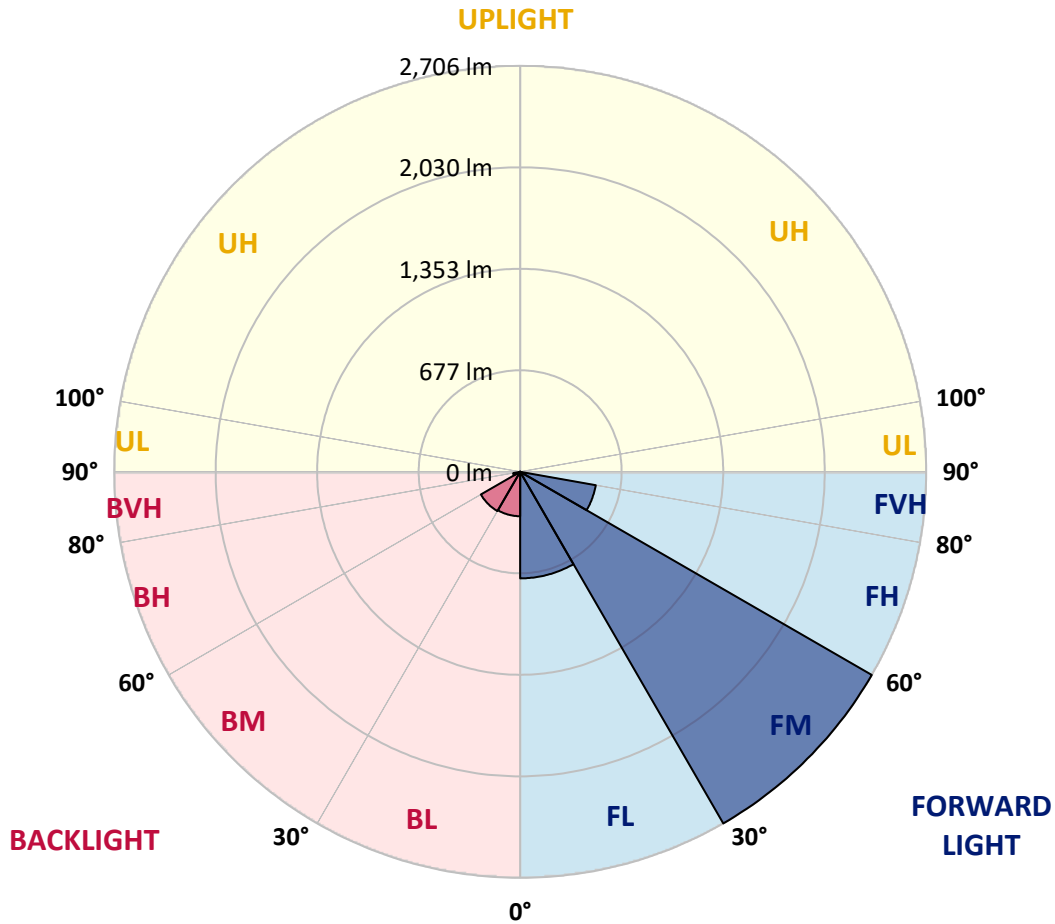


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.5	15.5			
FM (30°-60°)	2706.4	59.1			
FH (60°-80°)	511.6	11.2			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	295.8	6.5	B1/500		
BM (30°-60°)	302.5	6.6	B1/1000		
BH (60°-80°)	46.4	1.0	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2
2.5°	2133.7	2111.6	2113.3	2105.6	2095.4	2103.0	2069.8	2077.5	2076.7	2031.5	2001.8
5°	2080.1	2103.9	2079.2	2099.6	2080.1	2101.3	2080.9	2065.6	2040.9	2007.7	1952.4
7.5°	1989.0	1966.0	1972.8	1998.4	2002.6	2050.3	2024.7	2044.3	2034.1	1968.6	1892.8
10°	1806.0	1800.9	1834.9	1869.0	1910.7	1961.8	1981.3	1970.3	1962.6	1937.9	1836.7
12.5°	1665.6	1680.0	1679.2	1735.4	1806.0	1834.9	1886.0	1884.3	1926.9	1880.9	1783.9
15°	1532.0	1539.6	1575.4	1610.3	1688.6	1771.1	1834.1	1842.6	1893.7	1861.3	1743.0
17.5°	1450.3	1439.2	1467.3	1509.0	1589.0	1697.1	1766.9	1787.3	1857.1	1850.3	1696.2
20°	1369.4	1369.4	1392.4	1441.7	1514.9	1636.6	1760.9	1754.9	1857.1	1837.5	1646.0
22.5°	1342.2	1355.8	1361.7	1399.2	1486.0	1590.7	1735.4	1746.4	1871.5	1831.5	1623.9
25°	1379.6	1361.7	1363.4	1393.2	1474.9	1568.6	1716.6	1741.3	1897.9	1861.3	1606.0
27.5°	1385.6	1403.4	1408.6	1429.0	1483.4	1575.4	1763.5	1813.7	1963.5	1931.1	1611.1
30°	1437.5	1455.4	1454.5	1489.4	1526.9	1630.7	1868.1	1878.4	2098.8	2018.8	1642.6
32.5°	1500.5	1519.2	1525.2	1566.0	1595.8	1732.0	1995.8	2022.2	2229.0	2156.7	1725.2
35°	1578.8	1572.0	1599.2	1640.0	1703.9	1880.1	2151.6	2195.8	2369.4	2335.4	1810.3
37.5°	1676.6	1668.1	1694.5	1760.9	1847.7	2055.4	2295.4	2324.3	2471.6	2501.4	1967.7
40°	1745.6	1749.0	1829.0	1918.4	2010.3	2222.2	2386.5	2414.5	2543.1	2656.2	2086.9
42.5°	1860.5	1881.8	1977.9	2086.9	2183.0	2347.3	2460.5	2487.7	2576.2	2780.5	2247.7
45°	2027.3	2017.9	2124.3	2246.0	2352.4	2477.5	2548.2	2538.8	2595.8	2903.9	2349.0
47.5°	2241.8	2243.5	2314.1	2417.9	2528.6	2590.7	2646.0	2612.8	2636.7	3034.1	2484.3
50°	2388.2	2400.9	2457.9	2564.3	2619.7	2715.0	2785.6	2765.2	2757.5	3112.4	2569.4
52.5°	2425.6	2463.9	2494.5	2627.3	2756.7	2907.3	2997.5	3040.9	2904.8	3138.8	2677.5
55°	2143.0	2177.1	2285.2	2467.3	2808.6	3212.0	3336.3	3337.1	3097.1	3256.3	2753.3
57.5°	1713.2	1644.3	1710.7	1903.9	2374.5	3199.2	3501.4	3461.4	3193.3	3187.3	2687.7
60°	1184.7	1167.7	1171.9	1248.5	1643.5	2544.8	3120.1	3172.0	2940.5	2762.6	2127.7
62.5°	938.8	924.3	905.6	897.0	1020.5	1585.6	2200.9	2274.1	2056.2	1791.5	1261.3
65°	735.3	726.8	729.4	763.4	762.6	899.6	1203.4	1173.7	939.6	694.5	396.6
67.5°	496.2	509.0	519.2	622.1	674.9	626.4	581.3	564.3	305.5	128.5	87.7
70°	279.2	280.9	291.9	388.9	512.4	486.0	400.9	400.9	152.3	46.8	50.2
72.5°	152.3	147.2	137.0	167.7	228.1	231.5	178.7	155.7	45.1	30.6	28.1
75°	74.0	73.2	63.0	51.9	49.4	40.9	31.5	28.9	20.4	19.6	17.0
77.5°	15.3	14.5	7.7	7.7	8.5	9.4	11.9	11.9	14.5	14.5	11.9
80°	0.0	0.0	0.9	3.4	6.0	8.5	10.2	10.2	11.9	11.9	9.4
82.5°	0.0	0.0	0.9	2.6	5.1	7.7	9.4	10.2	11.9	12.8	10.2
85°	0.0	0.0	0.0	1.7	4.3	6.0	5.1	5.1	4.3	3.4	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2
2.5°	1986.4	1984.7	1945.6	1923.5	1883.5	1848.6	1820.5	1800.1	1800.1	1787.3	1775.4
5°	1930.3	1915.8	1832.4	1778.8	1703.0	1646.9	1608.6	1578.8	1532.0	1544.7	1494.5
7.5°	1860.5	1823.9	1713.2	1631.5	1526.9	1446.9	1365.1	1292.8	1223.0	1191.5	1208.5
10°	1785.6	1721.8	1572.8	1443.4	1313.2	1166.8	1071.5	955.8	884.3	880.0	861.3
12.5°	1706.4	1634.1	1452.8	1274.1	1103.0	926.8	781.3	673.2	624.7	571.1	581.3
15°	1646.9	1539.6	1319.2	1103.9	876.6	698.7	552.4	469.0	423.0	410.2	406.0
17.5°	1582.2	1467.3	1183.0	922.6	687.7	503.0	397.5	357.5	339.6	339.6	337.0
20°	1514.9	1385.6	1047.7	754.1	515.8	375.3	318.3	305.5	304.7	303.8	303.8
22.5°	1470.7	1292.0	925.1	599.2	388.9	300.4	276.6	271.5	274.9	285.1	285.1
25°	1423.9	1201.7	789.8	462.1	301.3	257.9	244.3	247.7	256.2	265.5	262.1
27.5°	1376.2	1143.0	662.1	362.6	246.8	225.5	220.4	228.1	237.5	246.0	243.4
30°	1365.1	1080.0	541.3	274.9	211.9	196.6	200.0	206.8	216.2	219.6	223.0
32.5°	1382.2	1030.7	443.4	225.5	184.7	180.4	180.4	183.8	189.8	197.5	194.9
35°	1430.7	1002.6	350.6	195.8	169.4	165.1	164.3	167.7	171.1	173.6	171.1
37.5°	1504.7	980.5	286.8	173.6	159.2	152.3	150.6	149.8	153.2	154.0	155.7
40°	1599.2	992.4	243.4	160.0	148.9	141.3	136.2	136.2	136.2	138.7	139.6
42.5°	1701.3	1008.5	210.2	152.3	139.6	130.2	125.1	123.4	125.1	128.5	127.7
45°	1808.6	1040.0	188.9	140.4	131.1	119.2	112.3	110.6	114.9	121.7	120.9
47.5°	1909.0	1085.1	172.8	132.8	122.6	111.5	103.0	101.3	108.9	118.3	119.2
50°	2009.4	1163.4	166.8	126.8	116.6	103.8	96.2	94.5	103.0	114.9	117.5
52.5°	2125.2	1247.7	162.6	119.2	109.8	97.9	89.4	87.7	97.0	112.3	113.2
55°	2200.9	1319.2	159.2	105.5	97.0	88.5	81.7	80.9	91.1	104.7	108.1
57.5°	2112.4	1219.6	147.2	91.9	82.6	78.3	72.3	72.3	80.9	93.6	96.2
60°	1601.7	802.6	104.7	74.0	69.8	67.2	64.7	64.7	71.5	80.9	81.7
62.5°	937.9	432.4	67.2	59.6	59.6	57.0	52.8	52.8	59.6	64.7	65.5
65°	278.3	138.7	54.5	51.1	50.2	46.0	41.7	40.9	46.0	48.5	47.7
67.5°	80.0	63.8	45.1	42.6	41.7	34.9	32.3	31.5	32.3	30.6	29.8
70°	47.7	43.4	34.9	35.7	31.5	25.5	23.0	22.1	20.4	17.9	16.2
72.5°	26.4	26.4	25.5	27.2	22.1	17.0	14.5	11.9	9.4	7.7	6.8
75°	16.2	17.0	17.9	18.7	14.5	11.1	9.4	6.0	3.4	1.7	1.7
77.5°	11.1	11.9	12.8	13.6	11.9	10.2	7.7	4.3	0.9	0.0	0.0
80°	8.5	9.4	11.1	11.9	12.8	13.6	10.2	4.3	0.9	0.0	0.0
82.5°	9.4	10.2	12.8	11.9	11.9	11.9	9.4	4.3	0.9	0.0	0.0
85°	1.7	2.6	4.3	4.3	6.0	7.7	6.0	1.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)