

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: P527037

Luminaire Tested: **GALN-SA2A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527037
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-SA2A-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 5010 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

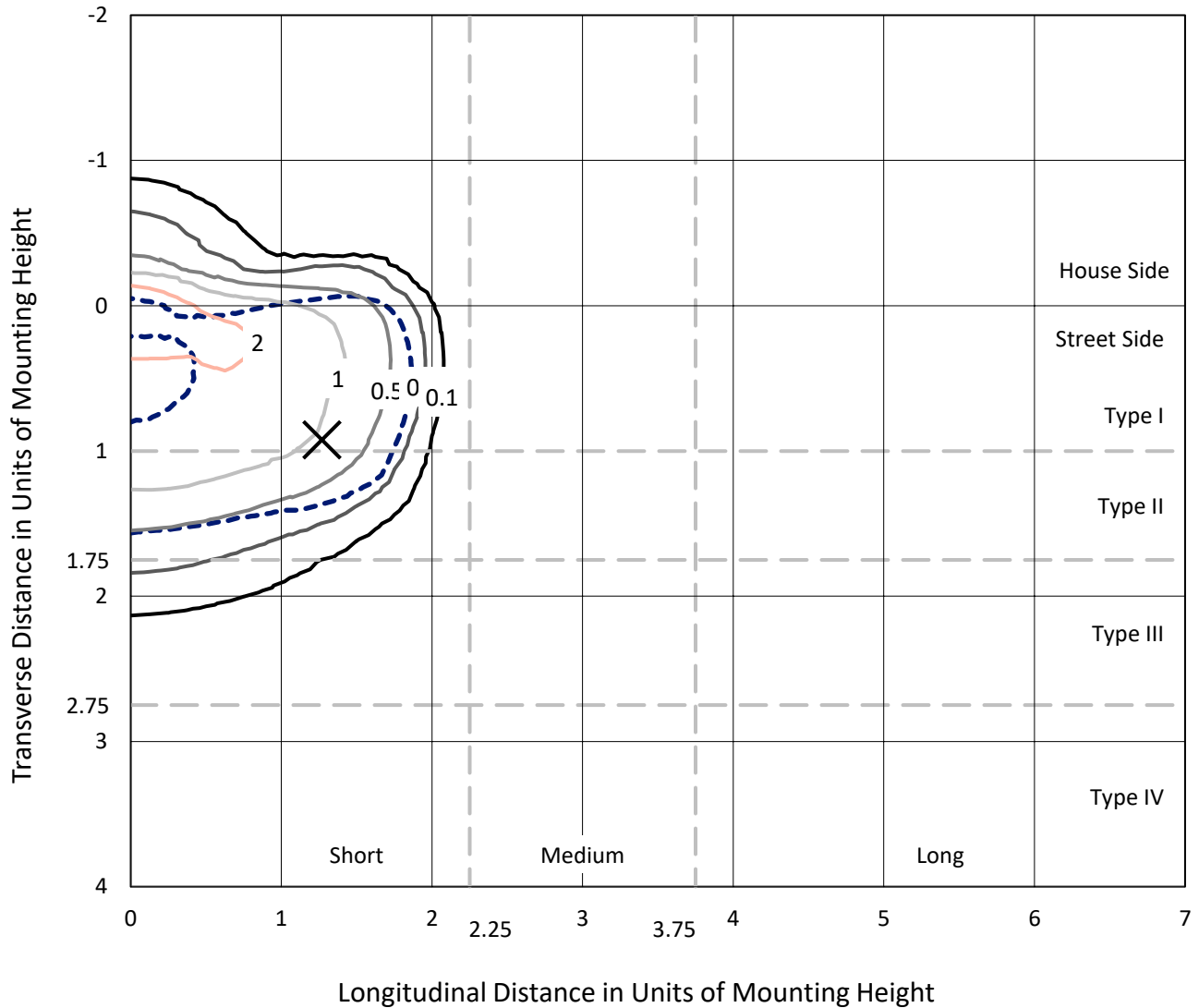
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

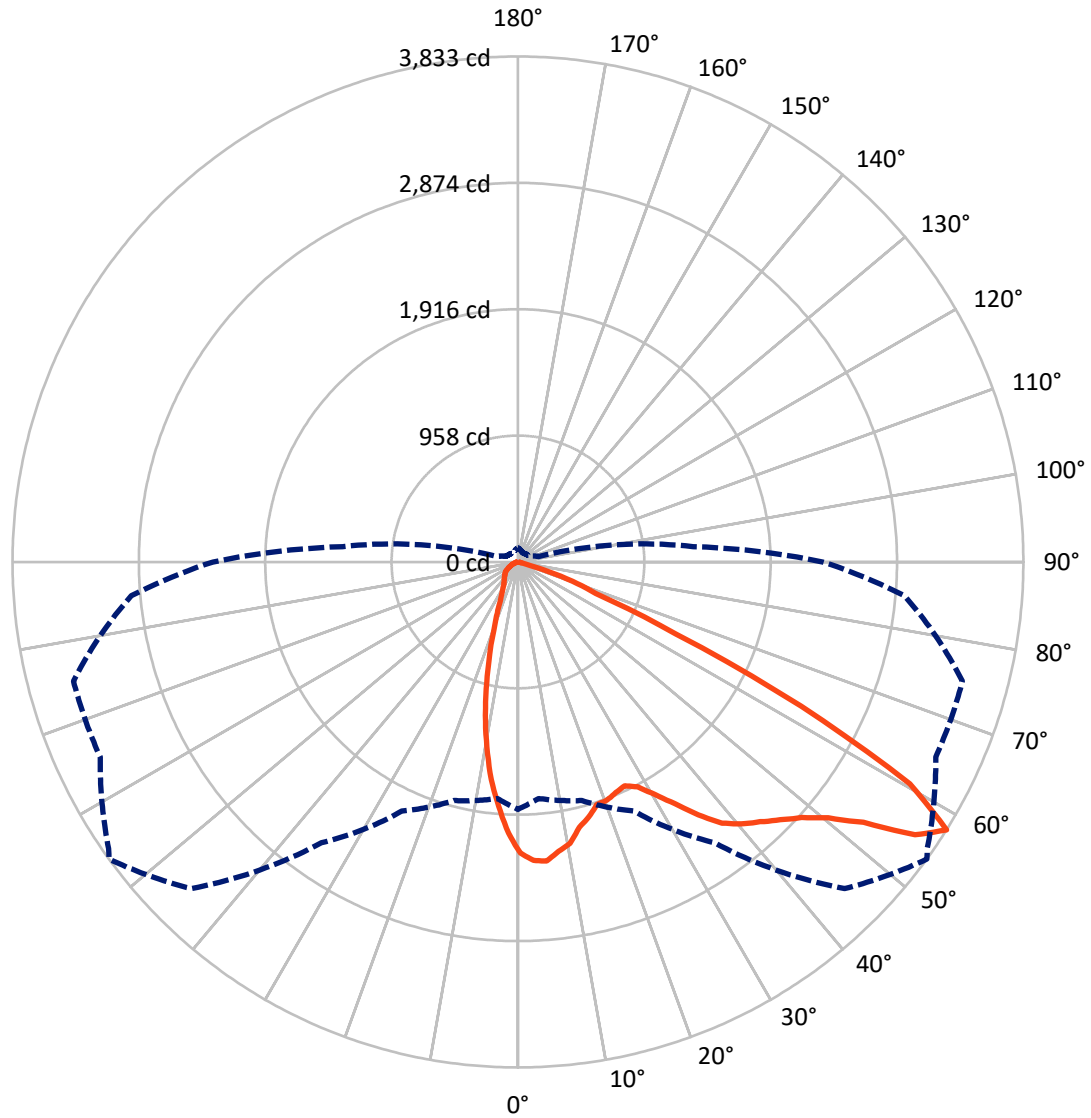
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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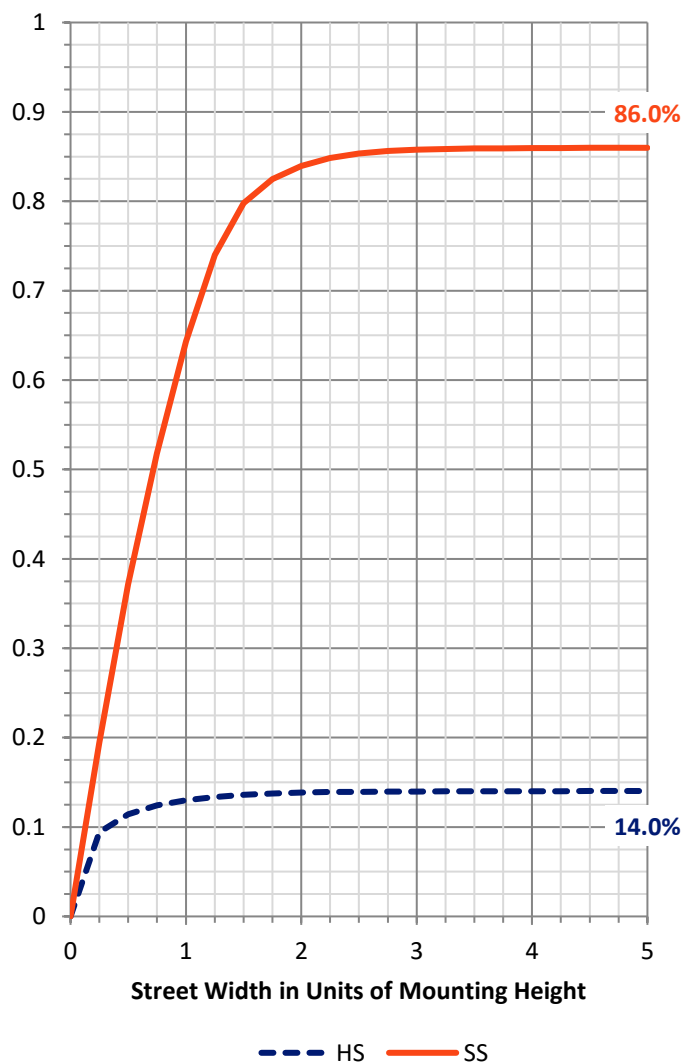
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.0	0.0	708.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	4302.0	0.0	4302.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	5010.0	0.0	5010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.7
10°-20°	394.3	7.9
20°-30°	522.5	10.4
30°-40°	759.4	15.2
40°-50°	1126.0	22.5
50°-60°	1408.1	28.1
60°-70°	555.4	11.1
70°-80°	55.3	1.1
80°-90°	4.3	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°	5010.0	100.0
0°-180°	5010.0	100.0

Coefficient of Utilization



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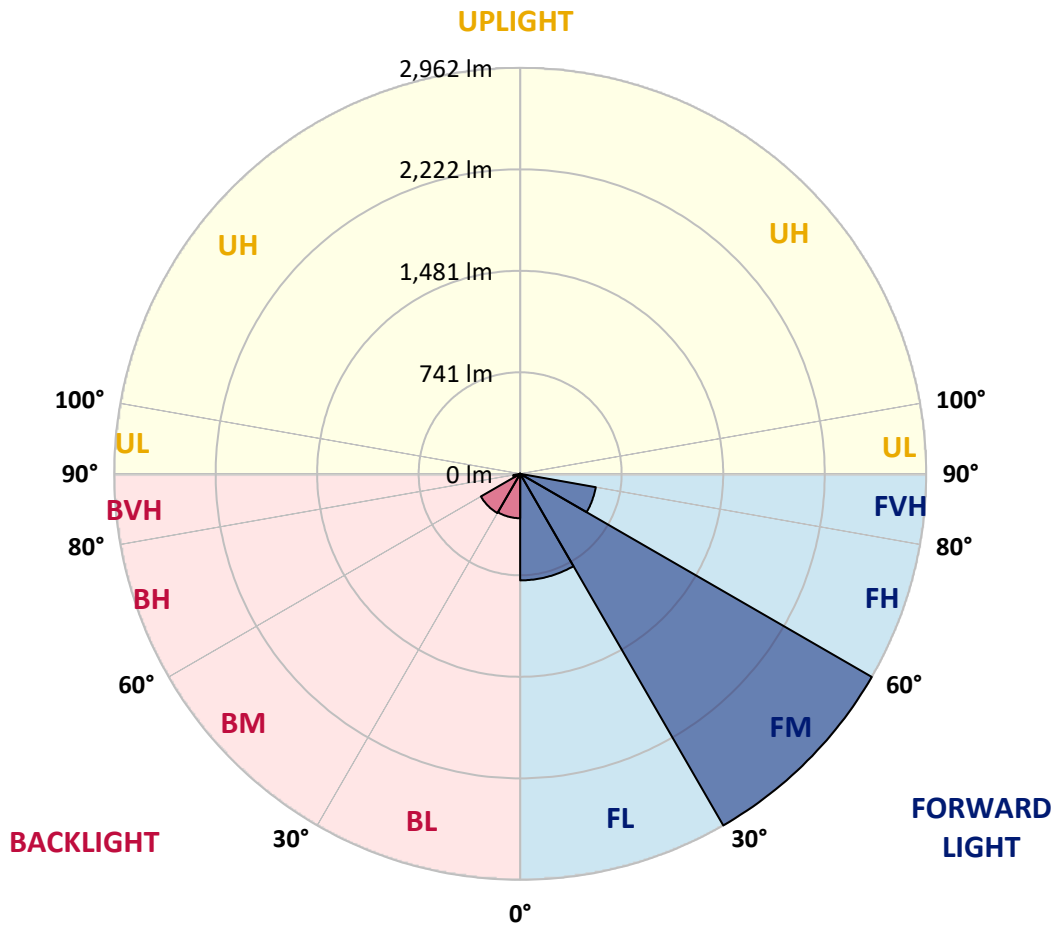
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.7	15.5			
FM (30°-60°)	2962.4	59.1			
FH (60°-80°)	559.9	11.2			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	323.8	6.5	B1/500		
BM (30°-60°)	331.1	6.6	B1/1000		
BH (60°-80°)	50.8	1.0	B0/110		G0/110
BVH (80°-90°)	2.3	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°	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0
2.5°	2335.5	2311.3	2313.2	2304.8	2293.6	2302.0	2265.7	2274.0	2273.1	2223.7	2191.1
5°	2276.8	2302.9	2275.9	2298.3	2276.8	2300.1	2277.8	2261.0	2234.0	2197.7	2137.1
7.5°	2177.2	2152.0	2159.5	2187.4	2192.1	2244.2	2216.3	2237.7	2226.5	2154.8	2071.9
10°	1976.9	1971.3	2008.5	2045.8	2091.5	2147.3	2168.8	2156.7	2148.3	2121.3	2010.4
12.5°	1823.2	1839.0	1838.1	1899.5	1976.9	2008.5	2064.4	2062.6	2109.2	2058.8	1952.6
15°	1676.9	1685.3	1724.4	1762.6	1848.3	1938.7	2007.6	2016.9	2072.8	2037.4	1907.9
17.5°	1587.5	1575.3	1606.1	1651.7	1739.3	1857.6	1934.0	1956.4	2032.8	2025.3	1856.7
20°	1499.0	1499.0	1524.1	1578.1	1658.3	1791.5	1927.5	1921.0	2032.8	2011.3	1801.7
22.5°	1469.1	1484.0	1490.6	1531.6	1626.6	1741.2	1899.5	1911.7	2048.6	2004.8	1777.5
25°	1510.1	1490.6	1492.4	1525.0	1614.5	1716.9	1879.0	1906.1	2077.5	2037.4	1757.9
27.5°	1516.7	1536.2	1541.8	1564.2	1623.8	1724.4	1930.3	1985.3	2149.2	2113.8	1763.5
30°	1573.5	1593.0	1592.1	1630.3	1671.3	1785.0	2044.9	2056.1	2297.3	2209.8	1798.0
32.5°	1642.4	1662.9	1669.4	1714.2	1746.8	1895.8	2184.6	2213.5	2439.9	2360.7	1888.4
35°	1728.1	1720.7	1750.5	1795.2	1865.1	2057.9	2355.1	2403.5	2593.6	2556.3	1981.5
37.5°	1835.3	1825.9	1854.8	1927.5	2022.5	2249.8	2512.5	2544.2	2705.4	2738.0	2153.9
40°	1910.7	1914.4	2002.0	2099.8	2200.5	2432.4	2612.2	2643.0	2783.6	2907.5	2284.3
42.5°	2036.5	2059.8	2165.1	2284.3	2389.6	2569.4	2693.3	2723.1	2820.0	3043.6	2460.4
45°	2219.1	2208.8	2325.3	2458.5	2575.0	2711.9	2789.2	2779.0	2841.4	3178.6	2571.2
47.5°	2453.8	2455.7	2533.0	2646.7	2767.8	2835.8	2896.4	2860.0	2886.1	3321.2	2719.4
50°	2614.1	2628.1	2690.5	2806.9	2867.5	2971.8	3049.1	3026.8	3018.4	3406.9	2812.5
52.5°	2655.1	2697.0	2730.5	2875.9	3017.5	3182.4	3281.1	3328.6	3179.6	3435.8	2930.8
55°	2345.8	2383.0	2501.4	2700.7	3074.3	3515.9	3651.9	3652.8	3390.1	3564.3	3013.7
57.5°	1875.3	1799.9	1872.5	2084.0	2599.2	3501.9	3832.6	3788.8	3495.4	3488.9	2942.0
60°	1296.8	1278.2	1282.8	1366.7	1798.9	2785.5	3415.3	3472.1	3218.7	3024.0	2329.0
62.5°	1027.6	1011.7	991.2	981.9	1117.0	1735.6	2409.1	2489.2	2250.8	1961.0	1380.6
65°	804.9	795.6	798.4	835.6	834.7	984.7	1317.3	1284.7	1028.5	760.2	434.1
67.5°	543.1	557.1	568.3	681.0	738.8	685.7	636.3	617.7	334.4	140.7	96.0
70°	305.6	307.4	319.5	425.7	560.8	531.9	438.8	438.8	166.8	51.2	55.0
72.5°	166.8	161.2	150.0	183.5	249.7	253.4	195.6	170.5	49.4	33.5	30.7
75°	81.0	80.1	68.9	56.8	54.0	44.7	34.5	31.7	22.4	21.4	18.6
77.5°	16.8	15.8	8.4	8.4	9.3	10.2	13.0	13.0	15.8	15.8	13.0
80°	0.0	0.0	0.9	3.7	6.5	9.3	11.2	11.2	13.0	13.0	10.2
82.5°	0.0	0.0	0.9	2.8	5.6	8.4	10.2	11.2	13.0	14.0	11.2
85°	0.0	0.0	0.0	1.9	4.7	6.5	5.6	5.6	4.7	3.7	1.9
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°	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0
2.5°	2174.4	2172.5	2129.6	2105.4	2061.6	2023.4	1992.7	1970.3	1970.3	1956.4	1943.3
5°	2112.9	2097.0	2005.7	1947.1	1864.1	1802.7	1760.7	1728.1	1676.9	1690.9	1635.9
7.5°	2036.5	1996.4	1875.3	1785.9	1671.3	1583.7	1494.3	1415.1	1338.7	1304.2	1322.9
10°	1954.5	1884.6	1721.6	1580.0	1437.5	1277.2	1172.9	1046.2	967.9	963.3	942.8
12.5°	1867.9	1788.7	1590.2	1394.6	1207.4	1014.5	855.2	736.9	683.8	625.1	636.3
15°	1802.7	1685.3	1444.0	1208.3	959.6	764.8	604.6	513.3	463.0	449.0	444.4
17.5°	1731.9	1606.1	1294.9	1009.9	752.7	550.6	435.1	391.3	371.7	371.7	368.9
20°	1658.3	1516.7	1146.8	825.4	564.6	410.8	348.4	334.4	333.5	332.6	332.6
22.5°	1609.8	1414.2	1012.7	655.8	425.7	328.9	302.8	297.2	300.9	312.1	312.1
25°	1558.6	1315.4	864.5	505.9	329.8	282.3	267.4	271.1	280.4	290.7	286.9
27.5°	1506.4	1251.1	724.8	396.9	270.2	246.9	241.3	249.7	259.9	269.2	266.4
30°	1494.3	1182.2	592.5	300.9	232.0	215.2	218.9	226.4	236.6	240.4	244.1
32.5°	1512.9	1128.2	485.4	246.9	202.2	197.5	197.5	201.2	207.7	216.1	213.3
35°	1566.0	1097.4	383.8	214.3	185.4	180.7	179.8	183.5	187.3	190.0	187.3
37.5°	1647.1	1073.2	314.0	190.0	174.2	166.8	164.9	164.0	167.7	168.6	170.5
40°	1750.5	1086.3	266.4	175.1	163.0	154.6	149.1	149.1	149.1	151.9	152.8
42.5°	1862.3	1104.0	230.1	166.8	152.8	142.5	136.9	135.1	136.9	140.7	139.7
45°	1979.7	1138.4	206.8	153.7	143.5	130.4	123.0	121.1	125.8	133.2	132.3
47.5°	2089.6	1187.8	189.1	145.3	134.2	122.0	112.7	110.9	119.2	129.5	130.4
50°	2199.5	1273.5	182.6	138.8	127.6	113.7	105.3	103.4	112.7	125.8	128.6
52.5°	2326.2	1365.7	177.9	130.4	120.2	107.1	97.8	96.0	106.2	123.0	123.9
55°	2409.1	1444.0	174.2	115.5	106.2	96.9	89.4	88.5	99.7	114.6	118.3
57.5°	2312.2	1335.0	161.2	100.6	90.4	85.7	79.2	79.2	88.5	102.5	105.3
60°	1753.3	878.5	114.6	81.0	76.4	73.6	70.8	70.8	78.3	88.5	89.4
62.5°	1026.6	473.3	73.6	65.2	65.2	62.4	57.8	57.8	65.2	70.8	71.7
65°	304.6	151.9	59.6	55.9	55.0	50.3	45.6	44.7	50.3	53.1	52.2
67.5°	87.6	69.9	49.4	46.6	45.6	38.2	35.4	34.5	35.4	33.5	32.6
70°	52.2	47.5	38.2	39.1	34.5	27.9	25.2	24.2	22.4	19.6	17.7
72.5°	28.9	28.9	27.9	29.8	24.2	18.6	15.8	13.0	10.2	8.4	7.5
75°	17.7	18.6	19.6	20.5	15.8	12.1	10.2	6.5	3.7	1.9	1.9
77.5°	12.1	13.0	14.0	14.9	13.0	11.2	8.4	4.7	0.9	0.0	0.0
80°	9.3	10.2	12.1	13.0	14.0	14.9	11.2	4.7	0.9	0.0	0.0
82.5°	10.2	11.2	14.0	13.0	13.0	13.0	10.2	4.7	0.9	0.0	0.0
85°	1.9	2.8	4.7	4.7	6.5	8.4	6.5	1.9	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)