

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: P458638

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8491 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

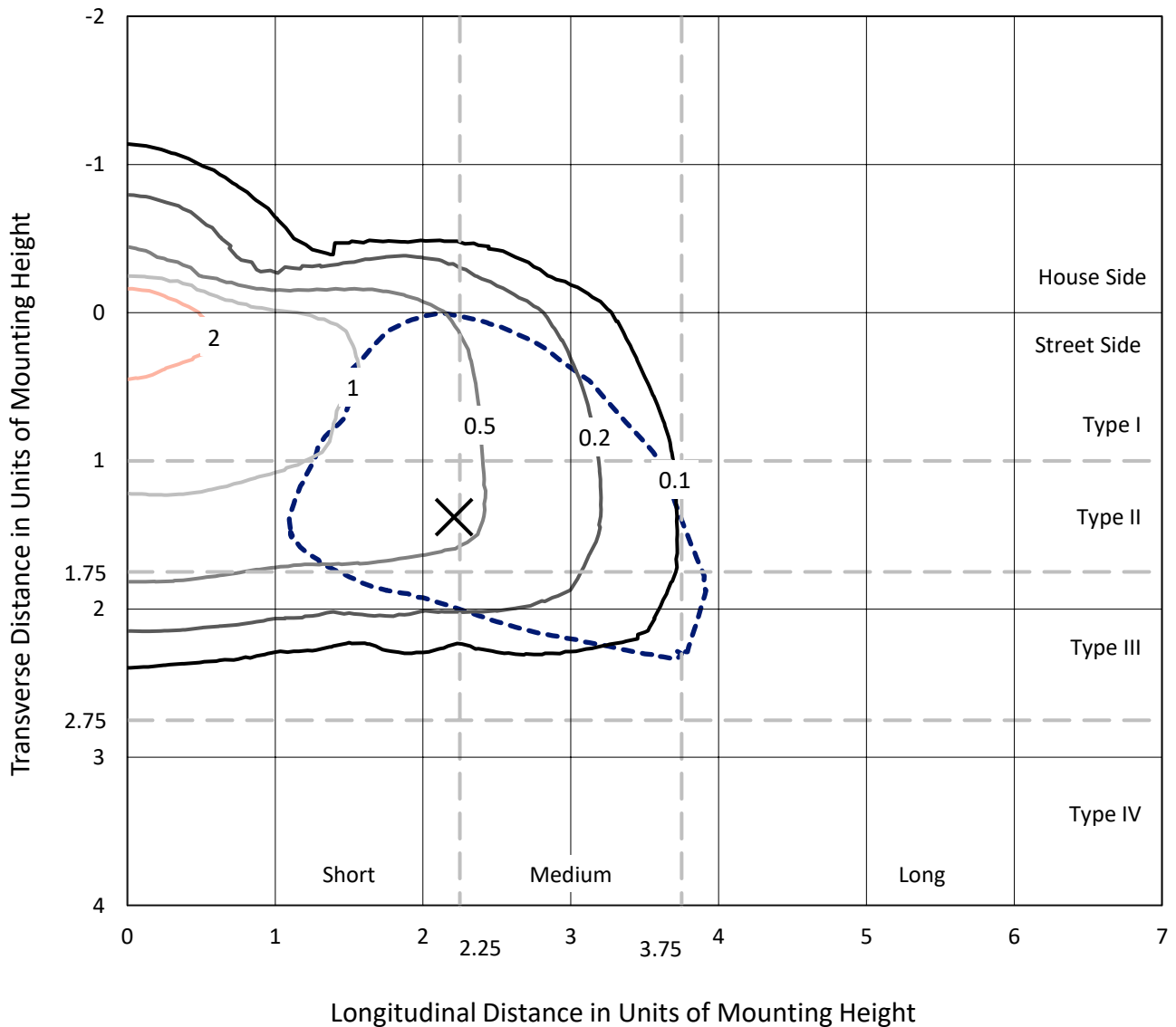
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

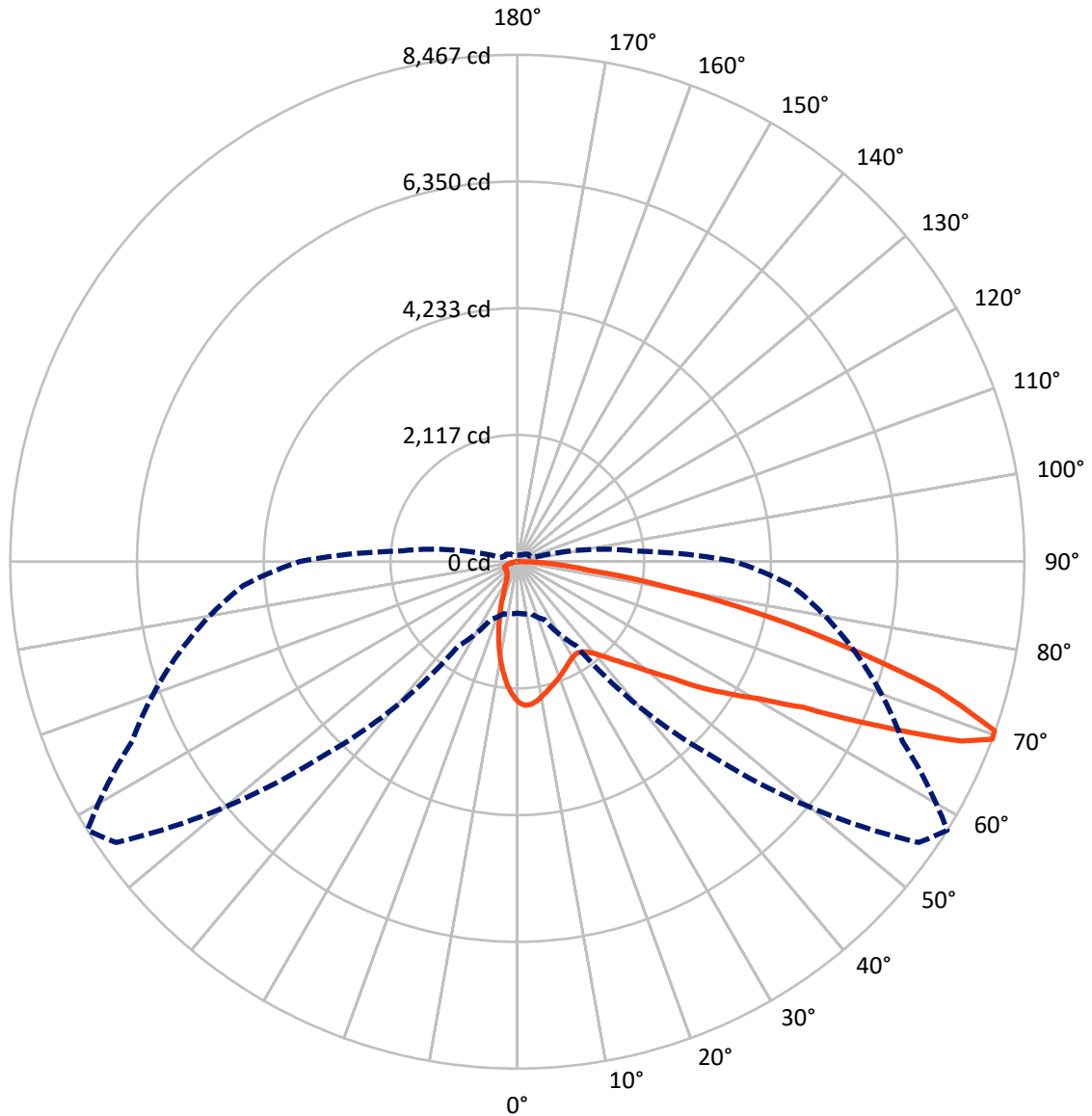
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.4	0.0	1244.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7246.6	0.0	7246.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	8491.0	0.0	8491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	2.3
10°-20°	437.6	5.2
20°-30°	565.3	6.7
30°-40°	734.3	8.6
40°-50°	1067.5	12.6
50°-60°	1703.4	20.1
60°-70°	2275.5	26.8
70°-80°	1311.7	15.4
80°-90°	196.5	2.3
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°	8491.0	100.0
0°-180°	8491.0	100.0

Coefficient of Utilization



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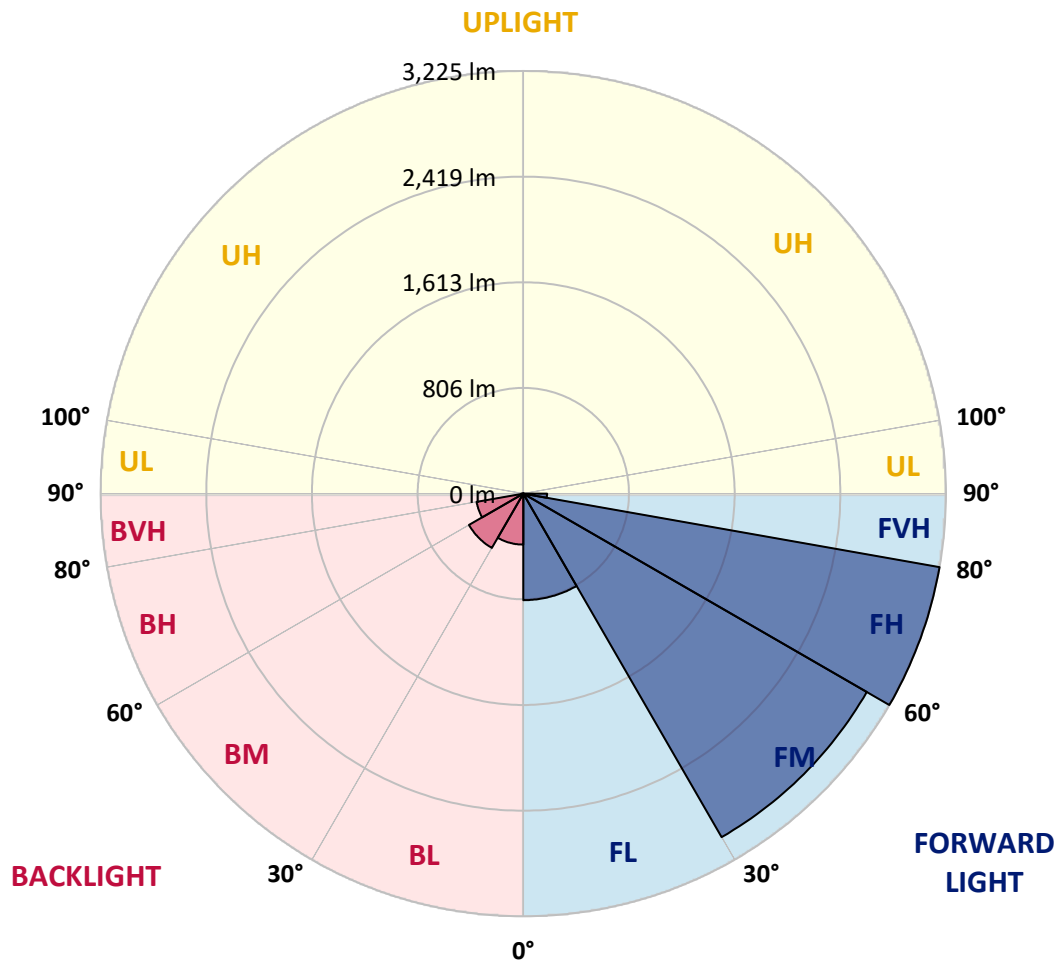
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.2	9.6			
FM (30°-60°)	3026.6	35.6			
FH (60°-80°)	3225.4	38.0			G2/5000
FVH (80°-90°)	181.4	2.1			G2/225
BL (0°-30°)	388.9	4.6	B1/500		
BM (30°-60°)	478.5	5.6	B1/1000		
BH (60°-80°)	361.8	4.3	B1/500		G1/500
BVH (80°-90°)	15.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4
2.5°	2433.5	2440.2	2438.3	2435.9	2432.1	2421.7	2404.7	2401.8	2390.9	2367.7	2338.8
5°	2396.1	2401.8	2402.3	2405.6	2410.3	2408.4	2396.1	2394.7	2378.6	2347.4	2299.1
7.5°	2267.8	2275.4	2292.0	2310.4	2327.0	2342.6	2346.4	2348.8	2338.8	2302.8	2238.4
10°	2123.4	2131.0	2138.5	2166.0	2206.7	2245.6	2277.8	2282.0	2284.4	2251.2	2172.6
12.5°	1963.3	1978.9	1995.0	2035.8	2090.2	2151.3	2208.1	2217.1	2233.2	2208.1	2115.8
15°	1827.4	1843.5	1866.7	1903.2	1969.0	2057.1	2137.1	2151.8	2183.5	2170.7	2062.8
17.5°	1733.2	1738.9	1755.0	1796.6	1867.7	1960.5	2067.5	2096.9	2147.5	2144.2	2017.3
20°	1658.8	1665.9	1675.9	1701.4	1775.3	1873.3	2002.6	2040.5	2109.2	2120.5	1972.3
22.5°	1627.6	1632.8	1631.4	1645.1	1695.3	1793.8	1936.8	1981.8	2075.1	2104.4	1930.6
25°	1629.5	1634.2	1627.1	1623.8	1653.6	1723.7	1868.1	1925.4	2047.6	2093.5	1892.8
27.5°	1661.2	1664.5	1651.3	1638.0	1640.4	1680.1	1811.3	1874.8	2024.4	2098.3	1861.0
30°	1703.8	1710.0	1701.4	1685.3	1667.8	1669.7	1774.8	1837.4	2013.5	2114.9	1845.9
32.5°	1758.7	1764.4	1760.6	1747.9	1725.1	1700.0	1765.8	1823.6	2014.5	2148.5	1842.6
35°	1816.5	1827.9	1834.0	1833.1	1814.6	1771.1	1801.4	1849.2	2037.2	2204.8	1862.0
37.5°	1881.9	1891.3	1917.9	1934.9	1917.9	1867.2	1881.4	1914.5	2087.4	2286.3	1904.6
40°	1945.3	1959.5	1998.4	2051.4	2044.8	2000.3	2003.6	2025.4	2175.9	2407.5	1987.9
42.5°	2011.6	2028.7	2096.4	2175.0	2190.6	2156.1	2165.0	2184.5	2301.9	2575.6	2131.0
45°	2096.9	2117.2	2200.6	2298.6	2360.1	2338.8	2364.4	2373.9	2470.5	2794.4	2319.4
47.5°	2206.7	2230.4	2333.2	2455.3	2542.5	2561.9	2606.4	2600.7	2679.3	3053.4	2563.8
50°	2391.9	2405.1	2502.2	2626.8	2746.6	2834.2	2882.5	2891.5	2938.3	3305.3	2837.0
52.5°	2612.1	2623.9	2694.0	2802.9	2953.0	3138.7	3258.0	3228.6	3240.0	3612.2	3156.7
55°	2859.7	2879.6	2924.1	2996.6	3191.2	3464.5	3704.1	3711.2	3585.2	3905.8	3463.0
57.5°	3051.5	3085.1	3161.4	3264.6	3511.3	3826.7	4148.7	4153.5	3992.5	4219.3	3801.1
60°	2954.9	2994.7	3169.0	3420.4	3931.4	4458.9	4680.0	4653.1	4388.8	4576.3	4213.6
62.5°	2538.2	2545.3	2798.7	3191.7	4060.6	5304.7	5470.9	5356.7	4917.8	5029.0	4632.7
65°	1642.7	1689.1	1889.9	2440.7	3635.9	5773.9	6856.5	6592.7	5659.3	5542.8	4983.6
67.5°	1037.1	1025.2	1108.6	1393.6	2500.8	5360.5	8038.9	7997.2	6629.2	5867.2	4899.8
69°	860.0	873.2	901.6	1068.3	1720.9	4576.8	8178.6	8466.5	7099.4	5841.7	4595.3
70°	779.9	786.1	815.9	947.1	1327.8	3833.3	7949.4	8453.7	7284.1	5734.6	4374.6
72.5°	618.9	618.4	669.6	788.0	992.6	2188.3	6527.3	7339.5	7077.6	5236.5	3614.6
75°	470.2	477.8	534.2	666.8	914.4	1195.7	4555.0	5652.2	5652.7	4135.9	2255.5
77.5°	339.1	343.8	409.6	559.7	861.4	969.3	3034.0	4054.0	3811.1	1895.1	708.9
80°	222.1	224.9	275.1	443.2	776.6	914.4	1799.0	2481.4	1797.6	502.9	234.4
82.5°	121.7	135.9	168.1	287.0	623.2	844.8	1093.4	1255.8	674.3	224.0	122.2
85°	61.1	64.9	94.7	167.6	407.2	699.0	761.5	720.3	348.1	111.3	63.5
87.5°	18.0	22.7	39.3	64.9	165.3	364.2	423.8	380.3	134.0	40.3	13.3
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°	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4
2.5°	2327.0	2318.5	2280.6	2246.5	2215.2	2182.1	2154.2	2129.5	2131.9	2132.4	2107.3
5°	2274.0	2254.5	2182.6	2115.3	2058.5	1986.5	1925.0	1885.2	1865.3	1838.8	1848.2
7.5°	2202.0	2164.6	2064.7	1952.9	1848.2	1755.0	1653.6	1584.0	1539.5	1496.4	1502.1
10°	2127.6	2067.5	1922.1	1774.4	1638.9	1489.8	1360.5	1249.7	1167.3	1136.5	1116.1
12.5°	2051.4	1972.3	1787.6	1591.1	1404.1	1225.5	1042.3	923.4	832.5	784.2	790.3
15°	1981.8	1885.7	1647.5	1407.8	1164.9	952.3	769.5	656.3	592.9	579.6	587.2
17.5°	1917.4	1791.4	1516.3	1229.8	946.1	714.1	578.2	514.3	488.7	481.6	481.1
20°	1851.1	1711.4	1369.0	1039.4	737.3	553.6	474.5	444.7	439.9	442.8	443.2
22.5°	1783.8	1612.4	1217.5	850.5	587.2	452.7	414.8	406.8	410.6	417.2	418.1
25°	1721.8	1525.3	1071.6	684.7	468.8	397.8	379.3	379.3	387.8	397.8	398.3
27.5°	1670.7	1441.0	926.3	543.6	392.6	358.0	351.8	355.2	367.0	374.6	375.0
30°	1628.5	1362.4	788.9	435.7	345.2	326.3	324.9	330.5	339.1	346.2	346.6
32.5°	1596.8	1293.3	660.6	366.1	312.5	302.1	301.6	305.9	310.6	312.5	314.4
35°	1584.5	1236.0	543.2	322.0	290.8	284.1	284.1	283.7	285.5	286.5	287.4
37.5°	1594.4	1191.9	452.2	293.6	274.7	269.9	267.1	264.2	263.3	263.3	263.8
40°	1636.6	1168.7	384.5	275.1	263.3	256.2	251.0	247.7	244.3	245.3	246.2
42.5°	1726.1	1173.0	338.6	262.8	253.3	243.4	235.8	232.0	229.7	232.5	232.0
45°	1868.6	1215.6	309.2	254.3	243.4	230.6	223.5	219.7	219.7	224.0	225.4
47.5°	2068.0	1297.0	293.6	247.7	235.8	220.7	213.6	210.7	211.7	218.8	219.3
50°	2311.4	1438.6	290.8	244.3	232.0	213.6	205.5	202.7	205.0	212.6	213.6
52.5°	2579.9	1620.9	304.5	244.8	228.7	209.3	198.9	194.6	197.0	203.2	205.0
55°	2898.1	1849.2	340.0	246.7	224.0	206.9	194.2	184.7	187.5	191.8	192.3
57.5°	3222.9	2137.1	402.5	247.2	220.2	202.7	186.1	173.8	173.8	176.6	178.1
60°	3619.8	2450.6	484.9	247.7	220.7	196.5	175.2	161.5	159.6	161.0	161.5
62.5°	4013.8	2712.9	498.6	246.2	225.4	190.4	163.4	149.2	145.9	145.4	144.4
65°	4187.6	2664.2	408.7	239.6	230.6	186.6	153.9	137.3	131.6	129.8	129.8
67.5°	3904.4	2253.6	307.3	230.6	227.3	182.8	144.9	127.4	120.8	117.0	117.0
69°	3638.2	2004.5	276.1	224.5	218.8	176.6	139.2	122.2	114.1	109.9	108.4
70°	3432.7	1833.1	262.8	219.3	210.7	169.5	135.0	118.4	109.4	104.7	103.7
72.5°	2739.5	1438.2	230.1	199.4	179.5	142.5	119.8	106.5	98.0	92.8	91.4
75°	1578.8	779.5	190.8	173.3	144.4	110.8	101.3	92.8	86.2	81.4	80.0
77.5°	485.9	301.2	138.3	136.9	106.1	85.7	81.0	77.7	72.9	67.7	66.8
80°	204.6	153.4	93.8	92.3	70.6	59.7	58.2	57.8	55.9	51.6	50.2
82.5°	112.2	86.7	65.3	56.8	42.6	34.6	36.0	36.5	35.0	30.8	27.9
85°	54.9	47.4	31.7	25.6	19.4	12.3	11.8	14.2	13.3	9.5	10.4
87.5°	10.9	13.3	8.5	3.8	1.9	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)