

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: P451853

Luminaire Tested: **GALN-SA2D-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11654 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

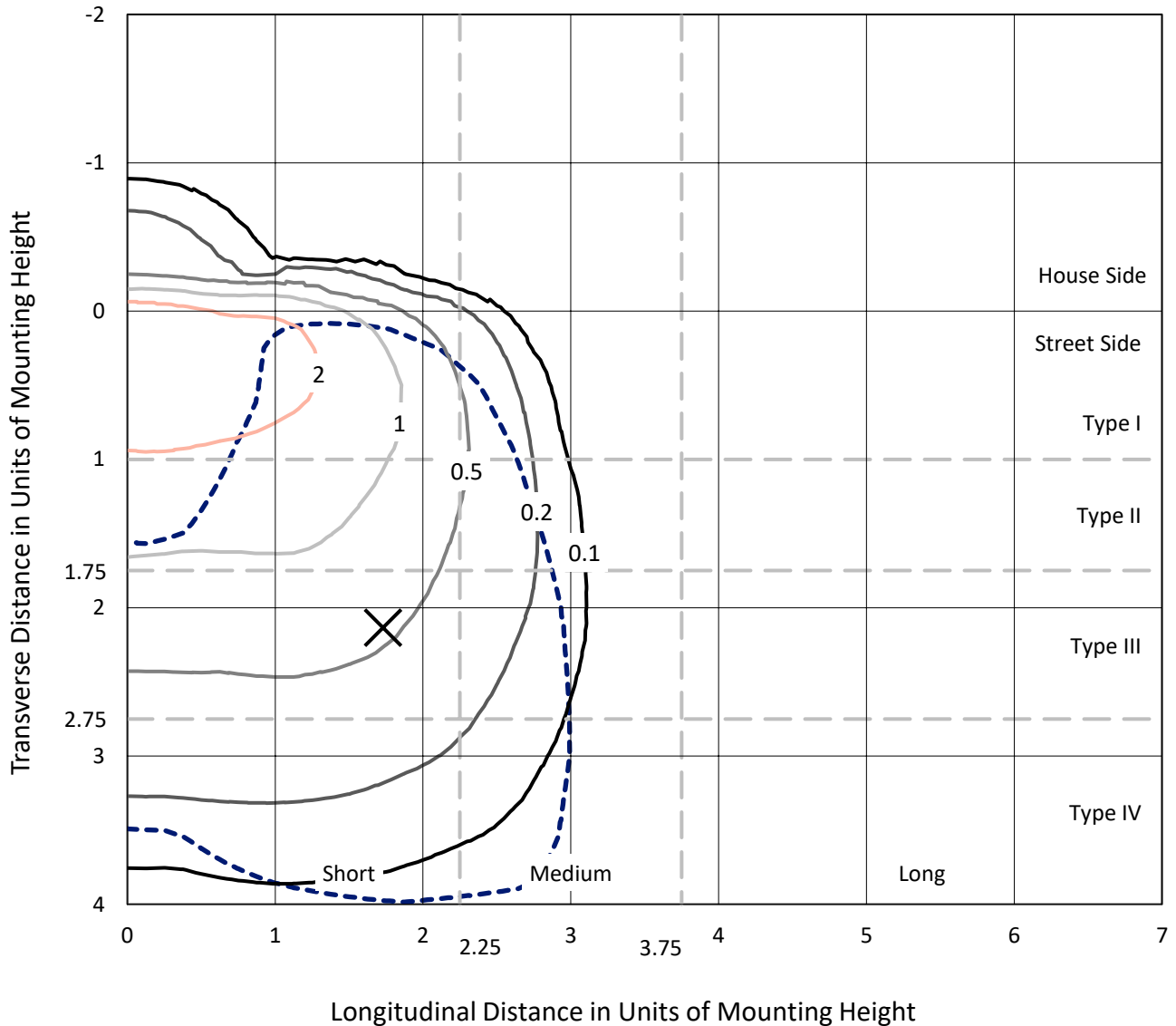
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

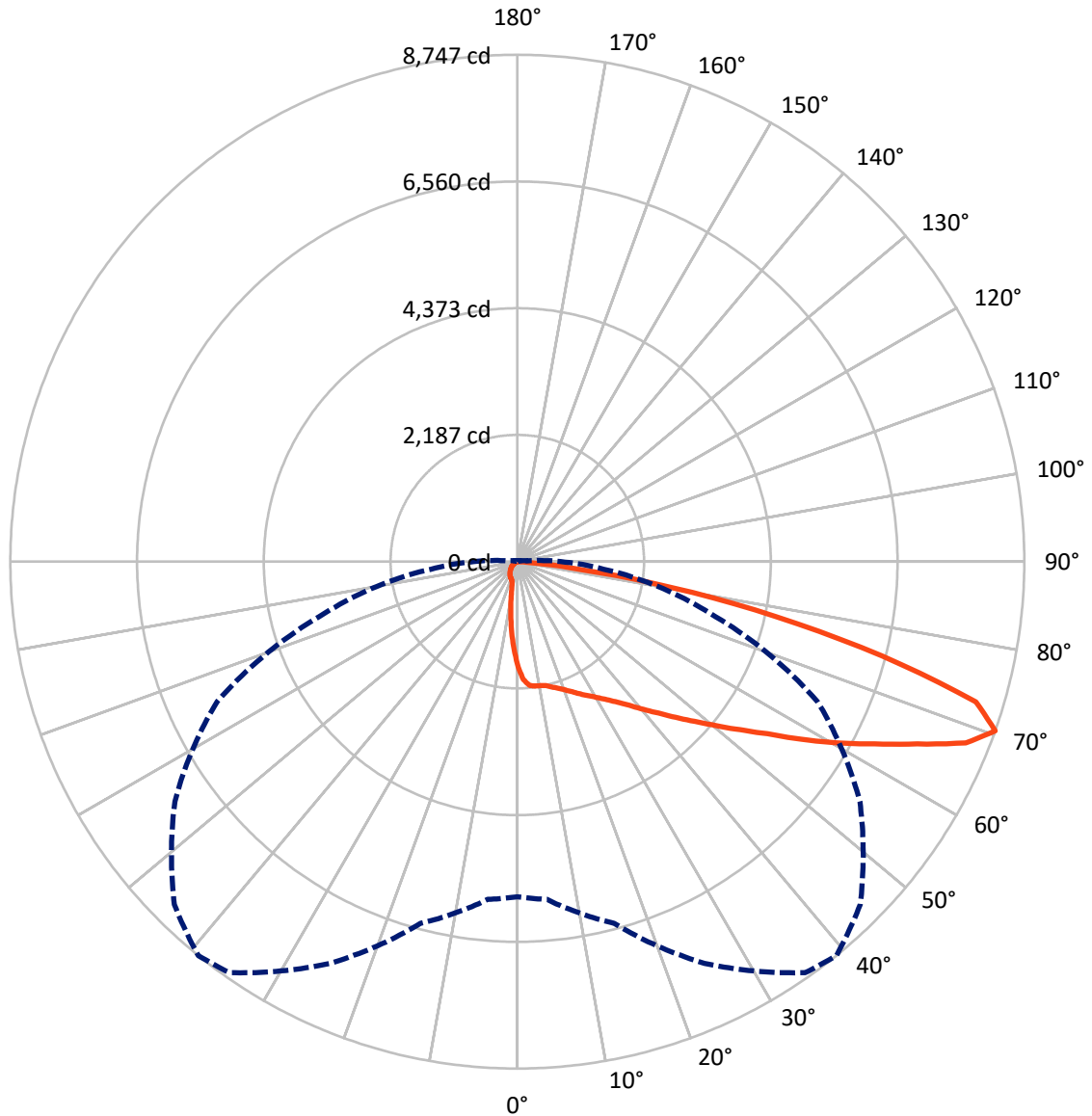
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.9	0.0	759.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	10894.1	0.0	10894.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	11654.0	0.0	11654.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.3
10°-20°	403.1	3.5
20°-30°	675.2	5.8
30°-40°	1047.2	9.0
40°-50°	1659.5	14.2
50°-60°	2432.6	20.9
60°-70°	3118.0	26.8
70°-80°	1959.2	16.8
80°-90°	204.1	1.8
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°	11654.0	100.0
0°-180°	11654.0	100.0



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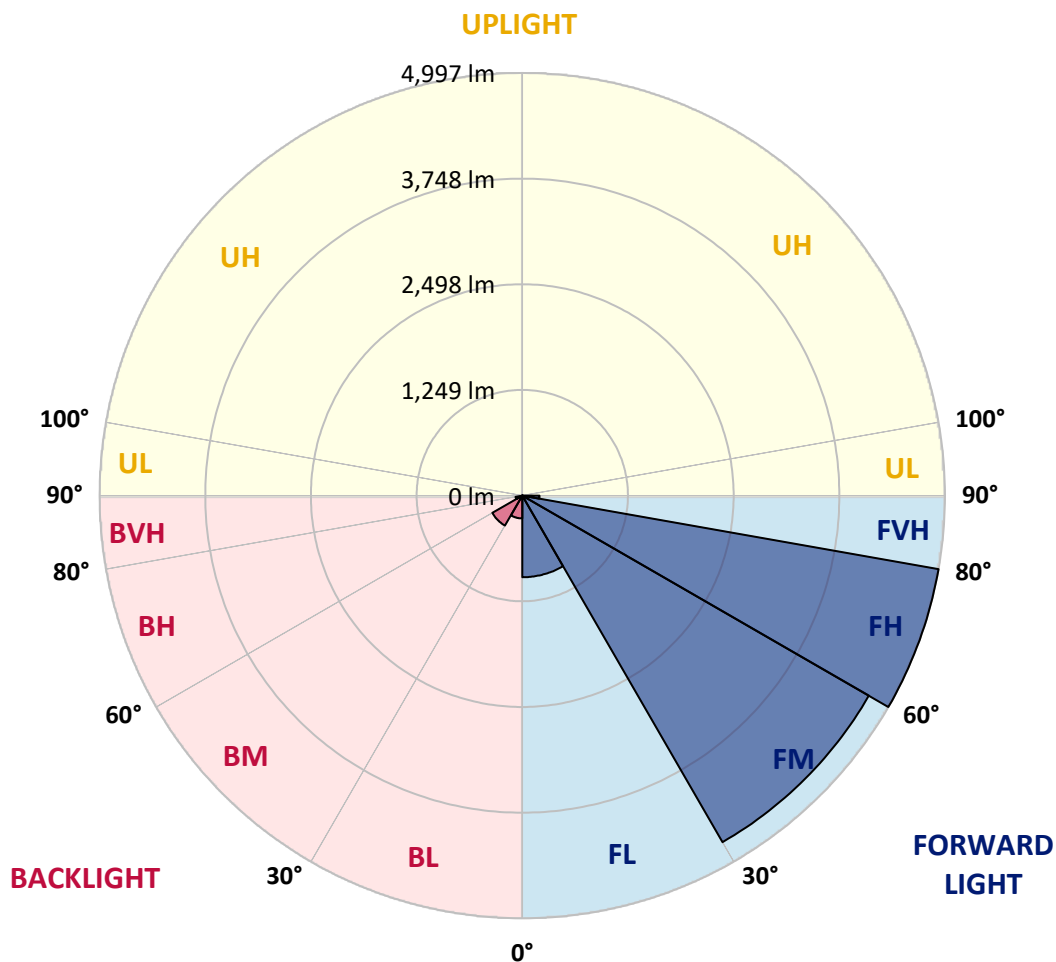
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.3	8.3			
FM (30°-60°)	4730.3	40.6			
FH (60°-80°)	4996.9	42.9			G2/5000
FVH (80°-90°)	202.6	1.7			G2/225
BL (0°-30°)	269.1	2.3	B1/500		
BM (30°-60°)	409.0	3.5	B1/1000		
BH (60°-80°)	80.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4
2.5°	2101.1	2094.1	2084.7	2073.7	2042.4	2036.9	2018.1	1978.2	1930.4	1891.3	1837.2
5°	2200.6	2204.5	2197.5	2177.9	2155.2	2141.9	2118.4	2056.5	1994.6	1915.5	1827.0
7.5°	2223.3	2231.1	2222.5	2203.7	2181.8	2167.7	2148.9	2095.7	2023.6	1933.5	1812.2
10°	2221.0	2230.3	2224.9	2207.6	2189.6	2176.3	2156.0	2113.7	2055.7	1961.0	1816.9
12.5°	2217.0	2229.6	2228.8	2220.2	2205.3	2195.1	2182.6	2145.0	2091.0	2000.9	1842.7
15°	2206.1	2221.7	2235.8	2242.9	2243.7	2243.7	2228.0	2188.1	2136.4	2053.4	1876.4
17.5°	2210.8	2228.8	2264.0	2284.4	2298.5	2296.9	2280.5	2237.4	2180.2	2107.4	1911.6
20°	2239.7	2264.0	2313.4	2354.1	2368.2	2363.5	2341.6	2291.4	2226.4	2153.6	1946.1
22.5°	2311.0	2332.9	2394.8	2442.6	2452.8	2440.2	2408.9	2340.8	2282.0	2203.7	1987.6
25°	2417.5	2443.4	2500.5	2536.6	2536.6	2529.5	2485.6	2405.8	2344.7	2273.4	2041.6
27.5°	2546.7	2568.7	2625.0	2657.2	2638.4	2618.0	2574.1	2477.8	2419.1	2361.1	2106.6
30°	2677.5	2691.6	2751.1	2765.2	2745.6	2719.8	2672.8	2576.5	2524.8	2480.2	2200.6
32.5°	2801.2	2831.8	2881.1	2878.0	2851.4	2838.8	2795.8	2693.2	2664.2	2659.5	2332.2
35°	2925.0	2948.5	2992.3	3003.3	2979.8	2977.5	2946.1	2870.2	2870.9	2901.5	2537.3
37.5°	3031.5	3052.6	3104.3	3128.6	3133.3	3145.0	3132.5	3082.4	3153.7	3237.5	2809.1
40°	3120.8	3150.5	3216.3	3258.6	3307.2	3350.2	3352.6	3363.5	3506.8	3650.9	3163.8
42.5°	3190.5	3232.0	3327.5	3405.8	3517.0	3571.8	3615.7	3676.0	3917.2	4132.6	3582.0
45°	3281.3	3329.1	3448.1	3571.1	3744.9	3835.0	3896.1	4057.4	4399.6	4693.3	4011.2
47.5°	3431.7	3456.7	3578.1	3757.4	3986.1	4114.6	4233.6	4477.9	4917.3	5180.4	4368.3
50°	3625.1	3641.5	3733.2	3982.2	4278.2	4447.4	4664.3	4951.7	5454.5	5584.5	4570.3
52.5°	3838.9	3844.4	3913.3	4229.7	4605.6	4818.6	5061.4	5416.1	5892.3	5872.7	4704.3
55°	4087.1	4079.3	4138.0	4498.3	4993.2	5236.8	5519.5	5891.5	6272.1	6077.1	4781.0
57.5°	4371.4	4350.3	4407.4	4854.6	5489.7	5781.1	6068.5	6301.8	6566.5	6248.6	4817.8
60°	4669.0	4626.7	4694.9	5254.8	6074.7	6351.2	6590.0	6652.7	6876.6	6384.8	4754.4
62.5°	4906.3	4907.1	5033.9	5680.8	6676.2	6918.2	7045.0	7101.4	7143.7	6355.1	4420.8
65°	5276.7	5289.2	5492.1	6272.1	7372.4	7582.2	7669.2	7485.9	7155.4	5985.4	3919.6
67.5°	5658.9	5698.8	6070.0	7086.5	8176.6	8345.8	8233.8	7560.3	6835.9	5142.0	2972.0
70°	5783.4	5849.2	6460.8	7647.2	8659.0	8746.8	8367.7	7213.4	5714.5	3437.9	1495.8
72.5°	5299.4	5405.9	6236.1	7442.9	8351.3	8275.3	7486.7	6049.7	3632.9	1305.5	456.6
75°	3737.1	3784.1	5182.7	6174.2	6716.9	6501.5	5694.9	3900.0	1494.2	366.5	156.6
77.5°	1929.6	1906.9	3082.4	4096.5	4790.4	4567.2	3729.3	2018.9	566.2	152.7	97.1
80°	997.7	1014.2	1333.7	2146.6	2924.2	2690.8	1988.4	935.8	301.5	84.6	74.4
82.5°	559.2	524.7	766.7	937.4	1367.3	1072.1	762.8	662.5	131.6	50.9	70.5
85°	101.8	106.5	420.5	506.7	474.6	301.5	245.9	442.5	38.4	28.2	49.3
87.5°	1.6	1.6	81.4	145.7	92.4	42.3	77.5	63.4	7.8	11.0	8.6
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°	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4	1818.4
2.5°	1809.8	1780.1	1724.4	1669.6	1599.9	1542.8	1504.4	1464.4	1423.7	1426.9	1436.3
5°	1778.5	1726.8	1617.2	1501.3	1390.1	1289.8	1191.1	1102.6	1066.6	1033.7	1035.3
7.5°	1747.2	1674.3	1513.8	1332.1	1163.7	993.0	869.3	767.5	713.4	672.7	661.0
10°	1733.1	1636.7	1419.0	1169.2	930.4	744.0	585.0	502.0	437.8	417.4	422.9
12.5°	1739.3	1617.9	1333.7	1022.0	737.7	518.4	407.2	364.9	350.8	348.5	346.9
15°	1751.1	1604.6	1249.9	859.1	541.9	385.3	342.2	334.4	332.8	331.3	332.0
17.5°	1766.7	1592.9	1160.6	706.4	415.8	336.7	324.2	320.3	319.5	319.5	319.5
20°	1782.4	1579.6	1061.1	570.1	346.9	318.0	310.1	307.8	307.0	307.0	306.2
22.5°	1800.4	1567.8	960.1	447.9	319.5	304.6	297.6	296.0	295.2	294.5	294.5
25°	1826.3	1552.9	852.8	366.5	302.3	292.1	285.1	283.5	282.7	279.6	280.4
27.5°	1860.7	1542.0	742.4	316.4	286.6	276.4	271.7	269.4	267.8	265.5	266.3
30°	1907.7	1532.6	624.9	289.0	268.6	260.0	255.3	253.7	252.2	249.8	249.8
32.5°	1989.1	1536.5	501.2	267.0	252.2	242.0	237.3	235.7	234.2	231.8	231.8
35°	2111.3	1559.2	401.0	248.3	232.6	222.4	217.7	217.7	215.4	212.2	211.4
37.5°	2311.0	1617.2	321.9	230.2	213.8	204.4	198.9	197.3	195.0	190.3	189.5
40°	2546.7	1707.2	271.0	212.2	196.6	187.2	182.5	177.8	171.5	166.8	166.0
42.5°	2842.8	1799.6	234.9	194.2	180.1	171.5	166.0	158.2	148.8	142.5	141.7
45°	3151.3	1884.2	210.7	177.8	164.5	157.4	151.1	138.6	126.9	119.0	118.3
47.5°	3381.5	1899.9	191.1	162.1	151.1	144.1	135.5	119.8	104.2	97.1	94.8
50°	3490.4	1823.9	170.7	146.4	137.8	130.0	119.0	101.0	83.8	75.2	73.6
52.5°	3528.8	1692.3	154.3	132.3	124.5	115.1	101.8	81.4	65.8	57.2	56.4
55°	3513.1	1526.3	139.4	119.0	108.9	97.9	84.6	65.0	48.6	41.5	39.9
57.5°	3430.9	1314.9	124.5	105.7	93.2	82.2	67.3	48.6	32.9	26.6	25.8
60°	3209.3	1026.7	109.6	90.8	79.1	67.3	53.3	34.5	20.4	14.9	14.9
62.5°	2834.9	762.0	95.5	76.0	66.6	54.0	37.6	21.9	11.0	7.8	7.0
65°	2369.0	562.3	79.9	64.2	55.6	42.3	26.6	13.3	5.5	2.3	1.6
67.5°	1653.2	346.9	66.6	52.5	45.4	30.5	16.4	5.5	2.3	0.0	0.0
70°	751.0	165.2	50.9	39.9	34.5	21.9	8.6	3.1	1.6	0.0	0.0
72.5°	233.4	86.9	36.0	29.0	23.5	14.1	4.7	2.3	1.6	0.0	0.0
75°	108.1	55.6	22.7	15.7	13.3	7.0	3.1	1.6	0.8	0.0	0.0
77.5°	80.7	43.1	13.3	8.6	7.0	4.7	2.3	1.6	0.8	0.0	0.0
80°	70.5	21.9	7.8	5.5	3.9	3.1	1.6	0.8	0.0	0.0	0.0
82.5°	63.4	11.0	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
85°	34.5	6.3	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	2.3	1.6	1.6	0.8	0.8	0.8	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)