

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: P454915

Luminaire Tested: **GALN-SA6A-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19617 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

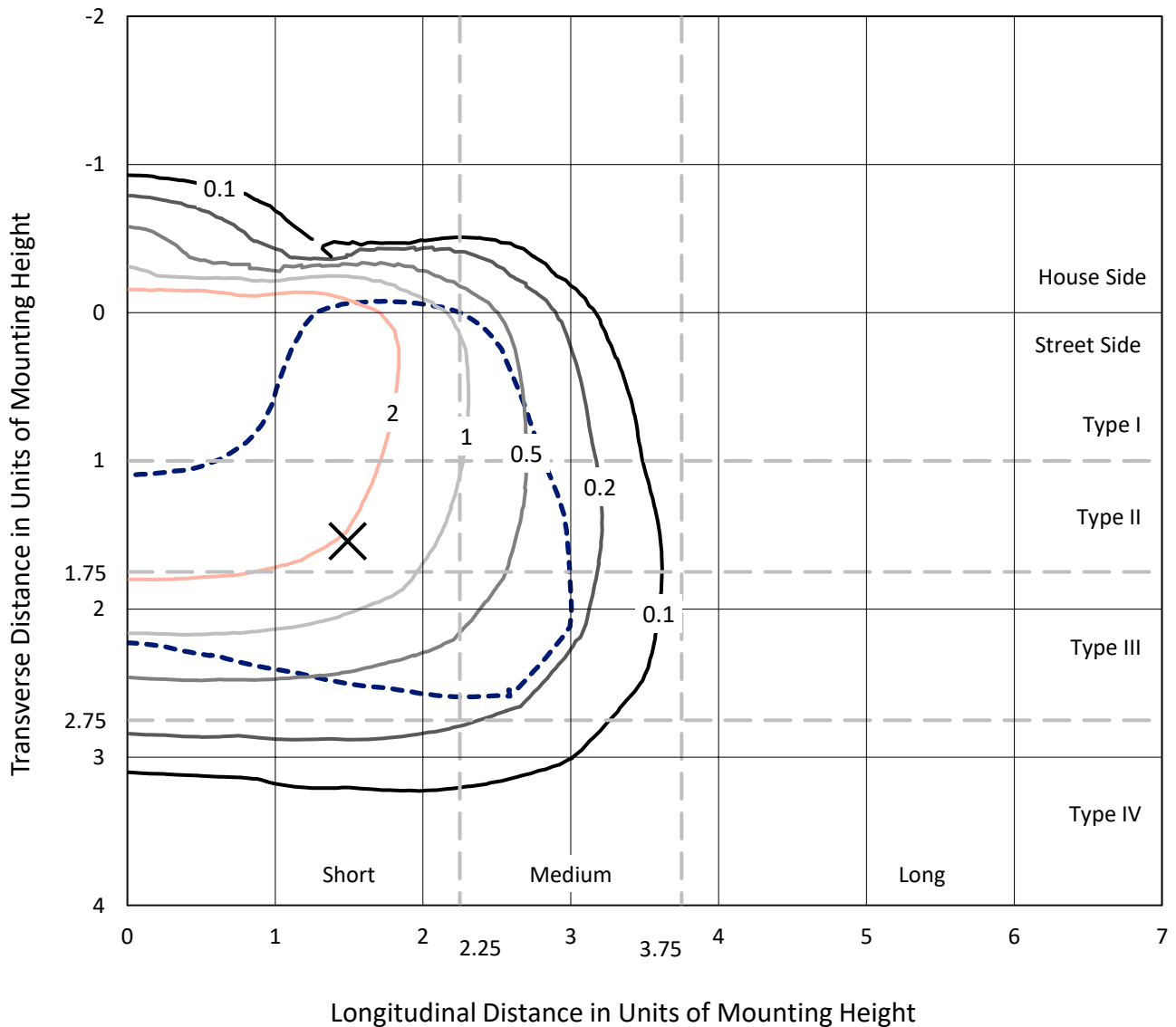
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

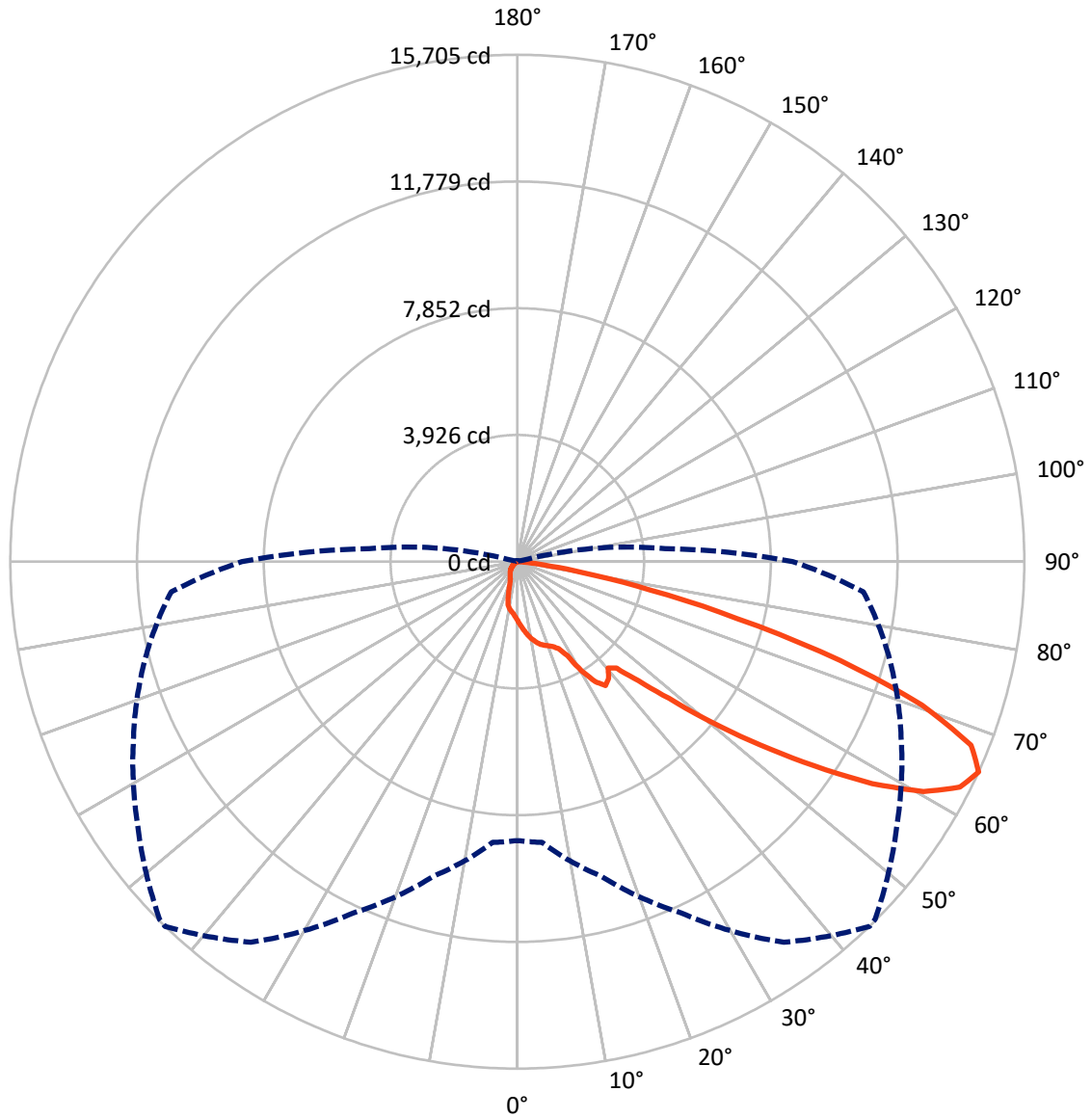
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1807.4	0.0	1807.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17809.6	0.0	17809.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	19617.0	0.0	19617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	0.9
10°-20°	546.5	2.8
20°-30°	926.7	4.7
30°-40°	1540.8	7.9
40°-50°	2690.3	13.7
50°-60°	5255.9	26.8
60°-70°	6098.1	31.1
70°-80°	2220.6	11.3
80°-90°	156.5	0.8
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°	19617.0	100.0
0°-180°	19617.0	100.0

Coefficient of Utilization



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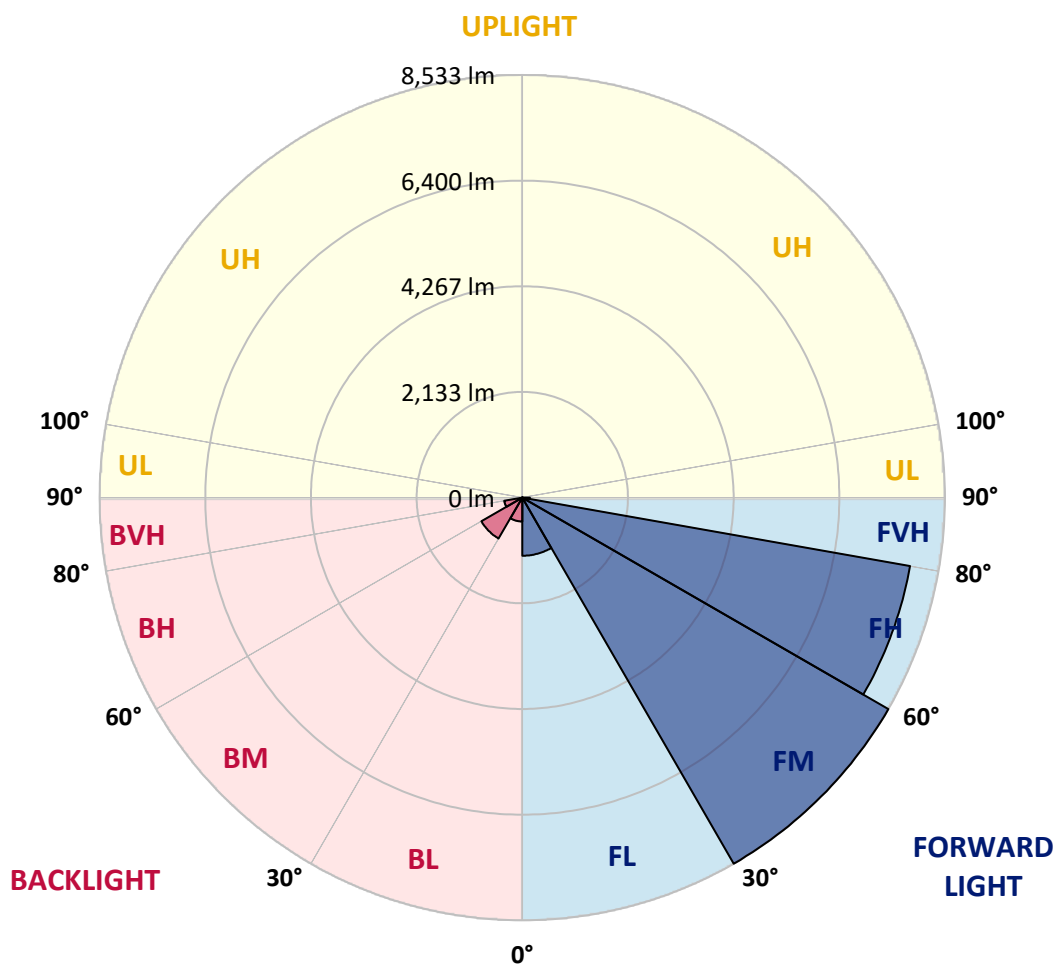
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.3	6.0			
FM (30°-60°)	8533.4	43.5			
FH (60°-80°)	7948.5	40.5			G4/12000
FVH (80°-90°)	154.3	0.8			G2/225
BL (0°-30°)	481.6	2.5	B1/500		
BM (30°-60°)	953.6	4.9	B1/1000		
BH (60°-80°)	370.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8
2.5°	2055.1	2046.1	2041.6	2017.6	1999.6	1977.2	1977.2	1948.7	1915.7	1879.7	1846.7
5°	2284.4	2269.5	2250.0	2229.0	2187.0	2127.1	2127.1	2067.1	1998.1	1936.7	1869.2
7.5°	2504.8	2491.3	2458.3	2417.9	2348.9	2285.9	2281.4	2194.5	2112.1	2019.1	1923.2
10°	2698.2	2687.7	2659.2	2581.2	2509.3	2426.8	2425.3	2327.9	2232.0	2118.1	1999.6
12.5°	2833.1	2834.6	2797.1	2722.1	2629.2	2551.3	2545.3	2449.3	2348.9	2226.0	2080.6
15°	2929.0	2929.0	2890.0	2806.1	2722.1	2653.2	2647.2	2563.3	2459.8	2326.4	2169.0
17.5°	2956.0	2965.0	2923.0	2848.1	2780.6	2720.6	2719.1	2648.7	2566.3	2437.3	2259.0
20°	2945.5	2954.5	2921.5	2863.1	2816.6	2782.1	2777.6	2749.1	2672.7	2551.3	2354.9
22.5°	2923.0	2932.0	2908.0	2873.5	2851.1	2861.6	2854.1	2878.0	2837.6	2690.7	2468.8
25°	2927.5	2936.5	2918.5	2899.0	2918.5	2983.0	3002.5	3105.9	3069.9	2867.5	2591.7
27.5°	3068.4	3086.4	3060.9	3069.9	3138.9	3288.8	3326.2	3504.6	3345.7	3092.4	2783.6
30°	3381.7	3369.7	3321.7	3365.2	3605.0	3922.8	3912.3	3883.9	3635.0	3351.7	3011.5
32.5°	3666.5	3656.0	3653.0	3840.4	4275.1	4429.5	4422.0	4146.2	3894.4	3648.5	3236.3
35°	3781.9	3741.5	3732.5	4186.7	4913.7	4709.8	4663.3	4254.1	4209.1	3972.3	3465.6
37.5°	4129.7	4101.2	3961.8	4243.6	4658.8	4591.4	4555.4	4440.0	4544.9	4258.6	3725.0
40°	4846.2	4766.8	4640.8	4365.0	4297.6	4326.1	4362.0	4678.3	4942.1	4649.8	4071.2
42.5°	5736.6	5718.6	5484.8	4970.6	4465.5	4504.4	4550.9	5176.0	5513.2	5238.9	4636.3
45°	6805.4	6830.9	6493.6	5886.5	5223.9	5256.9	5324.4	5910.5	6286.7	6154.8	5525.2
47.5°	7776.7	7757.2	7643.3	7012.2	6400.6	6327.2	6436.6	6853.3	7357.0	7378.0	6628.5
50°	8754.0	8857.5	8688.1	8440.8	7986.6	7832.2	7791.7	7995.6	8763.0	8662.6	7953.6
52.5°	10158.6	10212.6	9894.8	9831.8	9935.2	9434.6	9394.1	9443.6	10130.1	9785.3	8945.9
55°	11041.5	11010.0	10891.6	11383.3	11792.5	11167.4	11116.4	10917.1	11264.8	10578.3	9900.8
57.5°	11320.3	11365.3	11641.1	12530.0	13498.3	12967.7	12874.7	12308.1	12083.3	11317.3	10779.2
60°	11195.9	11278.3	11873.4	13195.5	14538.6	14459.2	14379.7	13427.9	12670.9	11934.9	11395.2
62.5°	10310.0	10425.4	11377.3	13077.1	14890.9	15387.0	15288.1	14126.4	13062.1	12234.7	11503.2
65°	8640.1	8725.6	10092.6	12002.3	14390.2	15704.8	15668.8	14345.2	13123.6	11960.4	10764.2
67.5°	6159.3	6450.1	7716.7	10115.1	12909.2	15162.2	15223.6	14082.9	12546.5	10774.7	8914.4
70°	3871.9	4069.7	4978.1	7241.6	10349.0	13301.9	13504.3	12882.2	10888.6	8398.8	5967.4
72.5°	1846.7	1993.6	2641.2	4583.9	7304.5	10465.9	10626.3	10575.3	8419.8	5291.4	3078.9
75°	822.9	878.4	1260.6	2339.9	4715.8	7034.7	7449.9	7518.9	5261.4	2588.7	1197.7
77.5°	419.7	421.2	590.6	1133.2	2354.9	4197.1	4279.6	4520.9	2852.6	1140.7	416.7
80°	223.3	238.3	313.3	535.1	1221.7	2067.1	2056.6	2260.5	1265.1	559.1	139.4
82.5°	100.4	110.9	176.9	280.3	596.6	784.0	845.4	924.9	542.6	356.8	61.5
85°	30.0	36.0	86.9	140.9	215.9	226.3	253.3	326.8	307.3	253.3	31.5
87.5°	4.5	4.5	36.0	39.0	31.5	40.5	42.0	46.5	98.9	92.9	16.5
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°	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8	1825.8
2.5°	1828.8	1818.3	1780.8	1749.3	1722.3	1705.8	1686.4	1674.4	1668.4	1663.9	1665.4
5°	1836.3	1810.8	1746.3	1695.3	1656.4	1614.4	1585.9	1569.4	1561.9	1549.9	1549.9
7.5°	1878.2	1837.7	1747.8	1669.9	1602.4	1545.4	1491.5	1472.0	1458.5	1455.5	1452.5
10°	1938.2	1887.2	1764.3	1656.4	1560.4	1482.5	1406.0	1338.6	1286.1	1254.6	1250.1
12.5°	2013.1	1939.7	1789.8	1647.4	1524.5	1386.6	1184.2	1047.8	956.3	927.9	932.4
15°	2082.1	2002.6	1815.3	1639.9	1458.5	1149.7	920.4	764.5	718.0	713.5	715.0
17.5°	2164.5	2070.1	1845.2	1629.4	1277.1	878.4	683.5	641.6	650.6	665.5	664.0
20°	2250.0	2142.0	1881.2	1566.4	1019.3	661.1	604.1	608.6	622.1	635.6	638.6
22.5°	2341.4	2224.5	1923.2	1415.0	778.0	575.6	572.6	578.6	592.1	607.1	610.1
25°	2467.3	2327.9	1954.7	1217.2	589.1	532.1	538.1	548.6	560.6	577.1	580.1
27.5°	2629.2	2467.3	1971.2	959.3	509.7	493.2	494.7	509.7	524.6	539.6	539.6
30°	2839.1	2633.7	1938.2	725.5	470.7	455.7	449.7	458.7	478.2	493.2	494.7
32.5°	3026.4	2791.1	1851.2	554.6	442.2	421.2	406.2	407.7	415.2	424.2	425.7
35°	3213.8	2944.0	1702.8	466.2	412.2	388.2	365.8	353.8	347.8	343.3	347.8
37.5°	3453.6	3134.4	1505.0	424.2	386.7	356.8	325.3	299.8	278.8	265.3	268.3
40°	3762.4	3398.2	1271.1	397.2	362.8	326.8	284.8	251.8	215.9	203.9	197.9
42.5°	4272.1	3798.4	1025.3	374.7	338.8	295.3	242.8	197.9	164.9	152.9	155.9
45°	5077.0	4303.6	790.0	350.8	314.8	260.8	203.9	155.9	128.9	122.9	125.9
47.5°	6144.3	4957.1	608.6	323.8	284.8	223.3	160.4	122.9	106.4	104.9	103.4
50°	7148.6	5565.7	508.2	293.8	248.8	185.9	131.9	103.4	92.9	91.4	91.4
52.5°	8057.0	6001.9	413.7	259.3	209.9	152.9	110.9	91.4	82.4	77.9	77.9
55°	8865.0	6286.7	335.8	217.4	164.9	121.4	95.9	82.4	72.0	66.0	64.5
57.5°	9475.1	6321.2	251.8	173.9	122.9	94.4	82.4	72.0	60.0	52.5	49.5
60°	9735.9	6022.9	185.9	131.9	91.4	74.9	66.0	58.5	45.0	37.5	36.0
62.5°	9473.6	5442.8	137.9	100.4	70.5	55.5	46.5	43.5	31.5	22.5	21.0
65°	8533.7	4604.9	109.4	76.4	52.5	40.5	30.0	28.5	19.5	10.5	9.0
67.5°	6836.8	3606.5	86.9	57.0	37.5	27.0	19.5	18.0	10.5	3.0	3.0
70°	4446.0	2305.4	70.5	42.0	24.0	18.0	12.0	9.0	6.0	1.5	0.0
72.5°	2199.0	1077.8	57.0	33.0	16.5	9.0	4.5	3.0	4.5	0.0	0.0
75°	852.9	383.7	42.0	22.5	9.0	4.5	3.0	0.0	1.5	0.0	0.0
77.5°	283.3	127.4	25.5	12.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	104.9	49.5	13.5	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	42.0	19.5	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	12.0	6.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	9.0	6.0	4.5	3.0	1.5	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)