

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: P452562

Luminaire Tested: **GALN-SA3C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14965 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

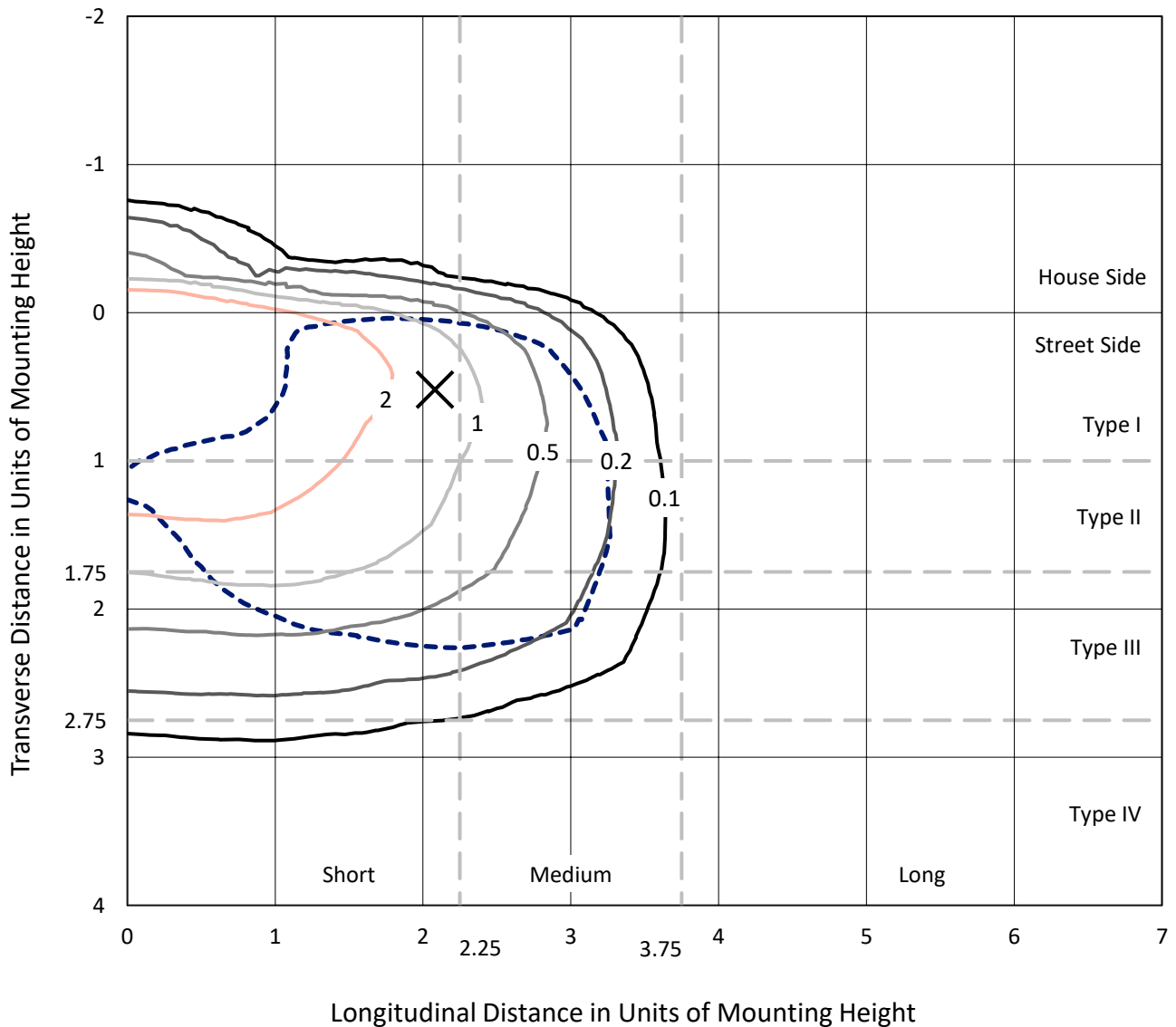
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

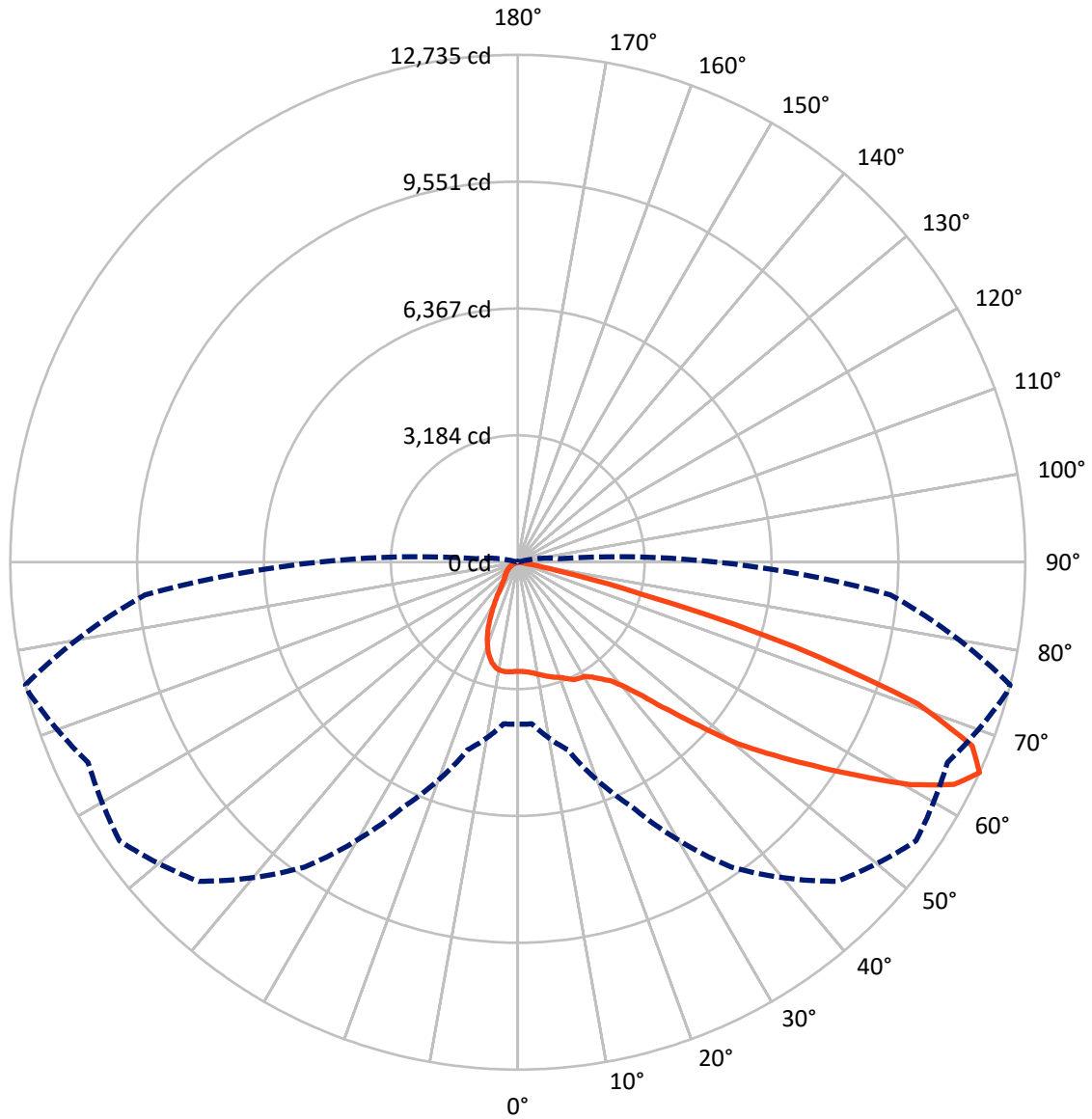
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.8	0.0	1080.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13884.2	0.0	13884.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	14965.0	0.0	14965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.5
10°-20°	502.1	3.4
20°-30°	809.1	5.4
30°-40°	1406.9	9.4
40°-50°	2324.8	15.5
50°-60°	3591.3	24.0
60°-70°	4385.4	29.3
70°-80°	1664.4	11.1
80°-90°	55.5	0.4
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°	14965.0	100.0
0°-180°	14965.0	100.0

Coefficient of Utilization



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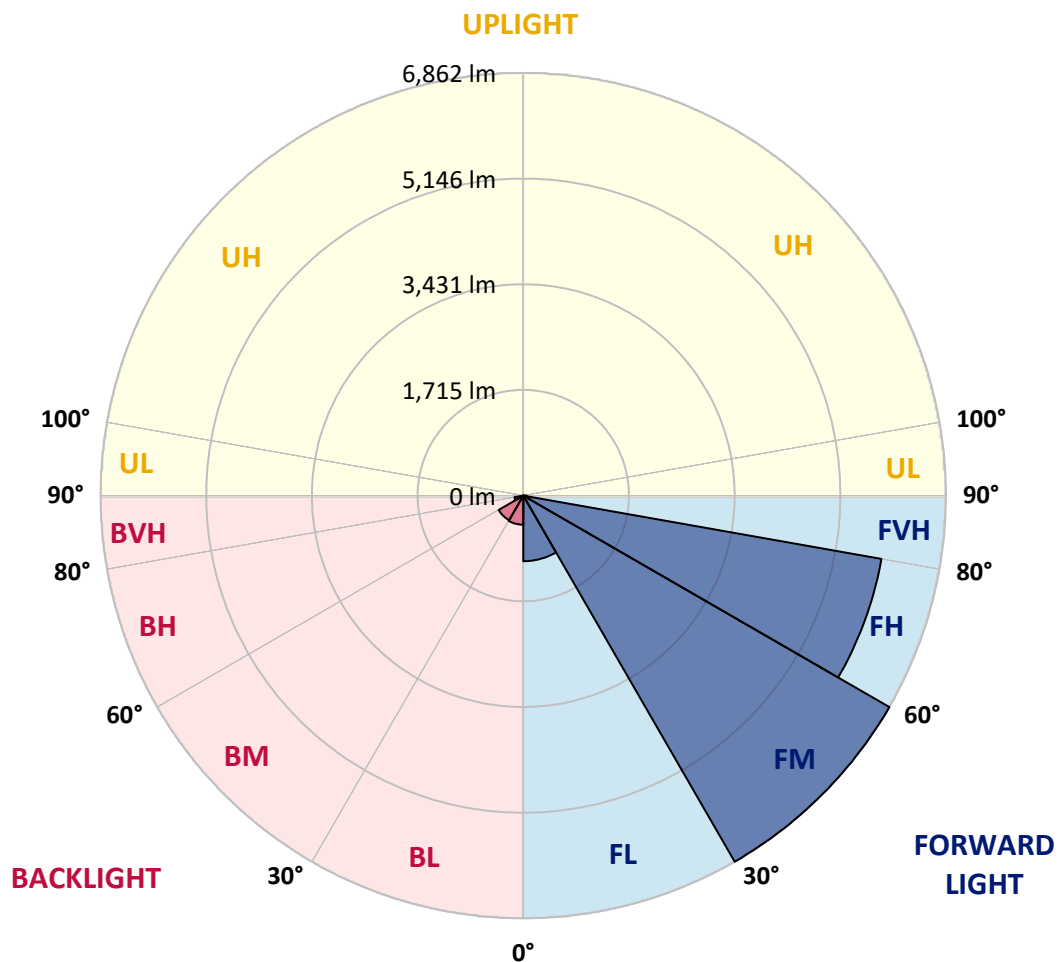
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.6	7.1			
FM (30°-60°)	6861.7	45.9			
FH (60°-80°)	5903.2	39.4			G3/7500
FVH (80°-90°)	54.8	0.4			G1/100
BL (0°-30°)	472.2	3.2	B1/500		
BM (30°-60°)	461.2	3.1	B1/1000		
BH (60°-80°)	146.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6
2.5°	2616.1	2617.1	2623.5	2639.3	2663.6	2683.7	2700.6	2728.1	2747.1	2749.2	2755.5
5°	2435.4	2422.7	2435.4	2476.6	2513.6	2569.6	2638.3	2706.9	2768.2	2772.4	2802.0
7.5°	2232.5	2243.1	2263.2	2305.4	2375.2	2460.8	2560.1	2682.6	2798.9	2809.4	2867.5
10°	2026.5	2049.7	2082.5	2147.0	2244.2	2355.1	2490.3	2665.7	2847.5	2862.3	2962.6
12.5°	1836.3	1846.9	1887.0	1973.7	2094.1	2250.5	2437.5	2656.2	2901.3	2919.3	3064.1
15°	1690.5	1704.2	1739.1	1817.3	1951.5	2152.2	2394.2	2653.1	2954.2	2979.5	3165.5
17.5°	1663.0	1671.5	1686.3	1739.1	1856.4	2074.0	2355.1	2652.0	3004.9	3035.5	3259.5
20°	1776.1	1768.7	1753.9	1748.6	1813.1	2013.8	2326.6	2660.4	3053.5	3088.4	3358.8
22.5°	2059.3	2068.8	1982.1	1879.6	1858.5	2004.3	2322.3	2700.6	3130.6	3171.8	3469.8
25°	2660.4	2587.5	2452.3	2207.2	2022.3	2062.4	2369.9	2795.7	3220.4	3265.9	3570.2
27.5°	3325.0	3302.8	3092.6	2689.0	2344.5	2185.0	2454.4	2868.6	3250.0	3296.5	3627.2
30°	3978.0	4004.4	3763.5	3317.6	2812.6	2412.2	2533.7	2896.1	3276.4	3325.0	3700.1
32.5°	4583.4	4615.1	4403.8	3962.1	3364.1	2805.2	2670.0	3002.8	3387.4	3437.0	3821.6
35°	5059.9	5064.1	4904.6	4552.8	3966.4	3282.8	2964.7	3189.8	3537.4	3595.5	3950.5
37.5°	5497.3	5491.0	5304.0	5000.8	4468.2	3757.2	3335.6	3405.3	3708.6	3768.8	4136.5
40°	5821.7	5825.9	5765.7	5480.4	4936.3	4195.6	3629.3	3607.1	3996.0	4090.0	4407.0
42.5°	6038.3	6077.4	6107.0	5962.2	5524.8	4735.6	4080.5	4039.3	4494.7	4572.8	4789.4
45°	6213.7	6283.4	6431.3	6424.0	6090.1	5398.0	4699.6	4615.1	5201.5	5285.0	5276.5
47.5°	6341.5	6412.3	6657.5	6805.4	6621.5	6040.4	5478.3	5405.4	6045.7	6136.6	5814.3
50°	6407.0	6491.6	6804.3	7090.6	7036.8	6659.6	6365.8	6370.1	7065.3	7153.0	6437.7
52.5°	6253.8	6363.7	6882.5	7398.1	7502.7	7252.3	7197.4	7336.8	7972.9	8047.9	7000.8
55°	5764.7	5903.1	6775.8	7660.1	8042.6	7951.8	8141.9	8354.3	8965.0	9013.6	7578.8
57.5°	5455.1	5601.9	6460.9	7883.1	8691.4	8830.8	9131.9	9287.3	9988.8	10112.4	8242.3
60°	5194.1	5309.3	6202.1	7930.6	9350.7	9906.4	10199.1	10359.7	11252.5	11332.8	8972.4
62.5°	4759.9	4891.9	5764.7	7598.9	9682.4	10767.5	11374.0	11302.1	12229.8	12285.8	9420.4
65°	4061.5	4073.1	4877.1	6765.2	9340.1	11326.4	12199.2	11898.0	12696.8	12734.9	9385.5
67.5°	3031.3	3143.3	3751.9	5317.7	7889.4	10848.9	12466.5	11913.9	12402.0	12296.4	8640.6
70°	1952.5	2038.1	2543.2	3687.4	5688.6	9053.8	11580.0	11097.2	10884.8	10650.2	7072.7
72.5°	901.3	1011.1	1510.9	2106.8	3373.6	6449.3	9400.3	9015.7	7834.5	7255.5	4495.7
75°	393.0	420.5	745.9	1111.5	1581.7	3410.6	6197.8	5596.7	3538.5	3232.1	1799.3
77.5°	239.8	257.8	390.9	595.9	621.3	1299.6	3338.8	2441.7	1093.6	964.6	488.1
80°	162.7	182.8	284.2	311.7	212.4	362.4	1253.1	651.9	220.8	211.3	104.6
82.5°	79.2	100.4	210.3	174.3	91.9	116.2	364.5	139.5	64.5	60.2	37.0
85°	11.6	20.1	118.3	114.1	41.2	27.5	64.5	34.9	22.2	21.1	16.9
87.5°	0.0	0.0	40.1	18.0	4.2	4.2	7.4	7.4	8.5	7.4	8.5
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°	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6	2737.6
2.5°	2758.7	2764.0	2743.9	2715.4	2684.7	2654.1	2610.8	2571.7	2548.4	2562.2	2528.4
5°	2808.4	2804.1	2751.3	2664.7	2549.5	2411.1	2273.7	2156.5	2118.4	2061.4	2055.0
7.5°	2877.0	2865.4	2753.4	2554.8	2294.9	2035.0	1781.4	1613.4	1517.2	1435.9	1438.0
10°	2973.2	2939.4	2729.1	2361.4	1933.5	1541.5	1218.2	996.3	900.2	869.6	845.3
12.5°	3072.5	3007.0	2661.5	2100.5	1505.6	1053.4	740.7	605.4	546.2	527.2	525.1
15°	3161.3	3057.7	2543.2	1786.7	1094.6	673.0	505.0	460.7	453.3	454.3	453.3
17.5°	3249.0	3097.9	2379.4	1453.8	743.8	482.9	434.3	423.7	426.9	431.1	430.0
20°	3321.9	3106.3	2170.2	1109.4	526.2	423.7	407.8	405.7	408.9	412.1	412.1
22.5°	3401.1	3112.7	1921.9	768.1	430.0	394.1	385.6	385.6	389.9	394.1	395.2
25°	3460.3	3077.8	1625.0	551.5	379.3	365.6	361.3	362.4	366.6	368.7	367.7
27.5°	3469.8	2979.5	1310.1	422.6	344.4	330.7	326.5	330.7	325.4	328.6	326.5
30°	3478.2	2854.9	991.1	356.1	312.7	291.6	285.3	278.9	274.7	269.4	268.4
32.5°	3504.6	2708.0	723.8	320.1	283.2	259.9	245.1	227.2	213.4	209.2	208.1
35°	3516.3	2531.5	531.5	291.6	256.7	231.4	205.0	179.6	159.5	152.1	157.4
37.5°	3560.6	2360.4	412.1	270.5	233.5	201.8	168.0	136.3	117.3	113.1	115.2
40°	3651.5	2174.4	345.5	252.5	213.4	174.3	133.1	102.5	89.8	85.6	84.5
42.5°	3797.3	1989.5	307.5	235.6	193.4	146.9	104.6	80.3	69.7	66.6	66.6
45°	3974.8	1812.0	281.0	217.7	172.2	118.3	82.4	64.5	58.1	56.0	56.0
47.5°	4208.3	1656.7	258.9	199.7	149.0	94.0	66.6	56.0	51.8	52.8	53.9
50°	4445.0	1541.5	234.6	179.6	122.6	77.1	57.1	49.7	48.6	49.7	49.7
52.5°	4623.6	1473.9	201.8	152.1	96.1	64.5	50.7	46.5	45.4	43.3	43.3
55°	4864.5	1459.1	160.6	123.6	76.1	53.9	45.4	42.3	39.1	37.0	35.9
57.5°	5174.0	1476.0	123.6	96.1	59.2	44.4	40.1	34.9	30.6	26.4	26.4
60°	5366.3	1438.0	96.1	74.0	43.3	35.9	30.6	25.4	20.1	16.9	15.8
62.5°	5305.0	1277.4	76.1	54.9	30.6	26.4	20.1	16.9	11.6	8.5	7.4
65°	4989.1	1031.2	61.3	38.0	22.2	15.8	10.6	10.6	5.3	1.1	0.0
67.5°	4366.8	763.9	48.6	25.4	12.7	7.4	5.3	3.2	0.0	0.0	0.0
70°	3554.3	551.5	38.0	15.8	7.4	5.3	2.1	1.1	0.0	0.0	0.0
72.5°	2256.8	315.9	29.6	9.5	5.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	872.7	123.6	20.1	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	247.2	58.1	11.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.5	25.4	6.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.6	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	1.1	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)