

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: P453245

Luminaire Tested: **GALN-SA4B-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453245
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-SA4B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 16863 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

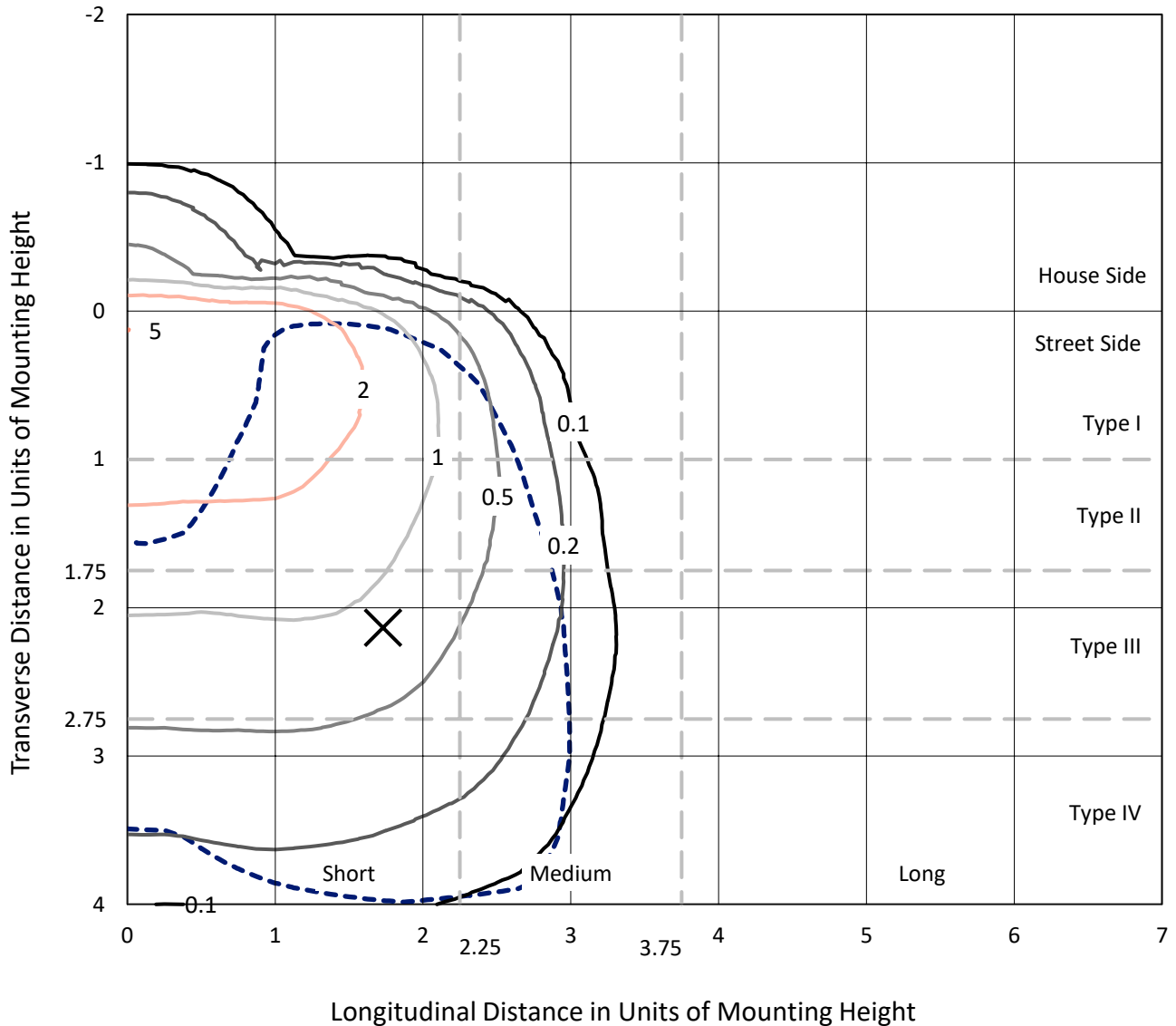
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

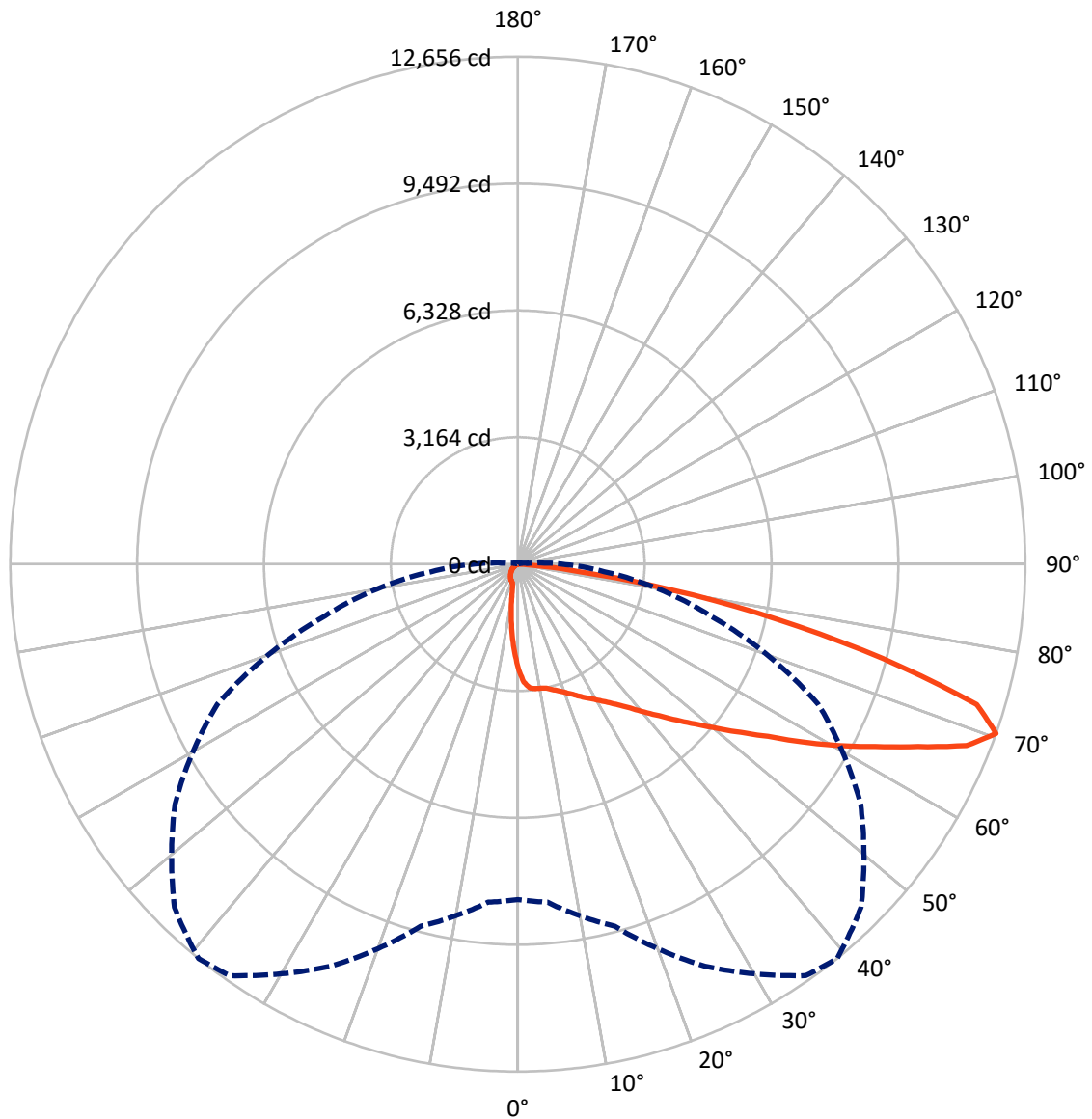
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1099.5	0.0	1099.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	15763.5	0.0	15763.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	16863.0	0.0	16863.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	1.3
10°-20°	583.2	3.5
20°-30°	977.0	5.8
30°-40°	1515.3	9.0
40°-50°	2401.2	14.2
50°-60°	3519.9	20.9
60°-70°	4511.6	26.8
70°-80°	2835.0	16.8
80°-90°	295.3	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°	16863.0	100.0
0°-180°	16863.0	100.0



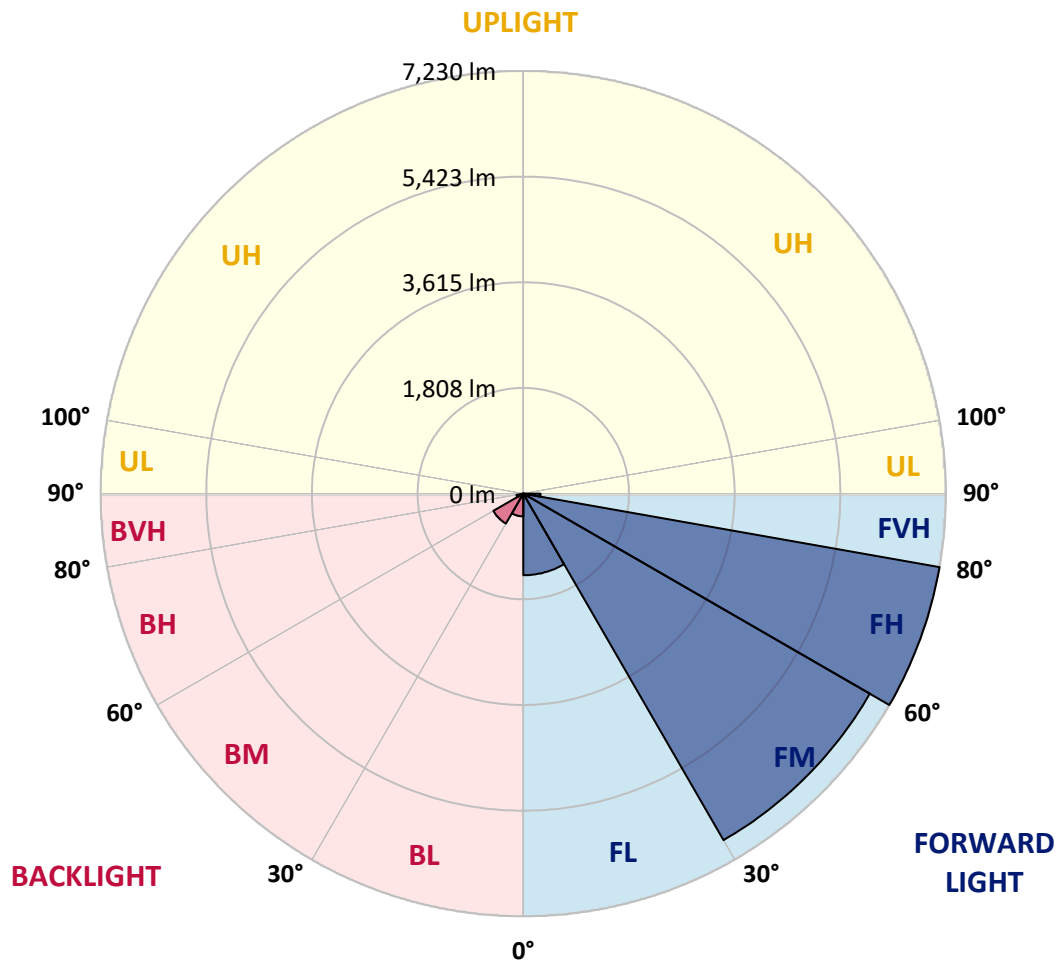
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.3	8.3			
FM (30°-60°)	6844.7	40.6			
FH (60°-80°)	7230.3	42.9			G3/7500
FVH (80°-90°)	293.2	1.7			G3/500
BL (0°-30°)	389.3	2.3	B1/500		
BM (30°-60°)	591.7	3.5	B1/1000		
BH (60°-80°)	116.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2
2.5°	3040.3	3030.1	3016.5	3000.6	2955.3	2947.4	2920.2	2862.4	2793.2	2736.6	2658.4
5°	3184.2	3189.9	3179.7	3151.3	3118.5	3099.2	3065.2	2975.7	2886.2	2771.7	2643.7
7.5°	3217.1	3228.4	3215.9	3188.7	3157.0	3136.6	3109.4	3032.3	2928.1	2797.8	2622.1
10°	3213.7	3227.3	3219.3	3194.4	3168.3	3149.1	3119.6	3058.4	2974.6	2837.4	2628.9
12.5°	3208.0	3226.1	3225.0	3212.5	3191.0	3176.3	3158.1	3103.7	3025.5	2895.2	2666.3
15°	3192.1	3214.8	3235.2	3245.4	3246.5	3246.5	3223.9	3166.1	3091.3	2971.2	2715.1
17.5°	3198.9	3225.0	3276.0	3305.4	3325.8	3323.6	3299.8	3237.4	3154.7	3049.3	2766.1
20°	3240.8	3276.0	3347.4	3406.3	3426.7	3419.9	3388.2	3315.6	3221.6	3116.2	2815.9
22.5°	3344.0	3375.7	3465.2	3534.3	3549.1	3530.9	3485.6	3387.0	3302.0	3188.7	2876.0
25°	3498.1	3535.5	3618.2	3670.3	3670.3	3660.1	3596.7	3481.1	3392.7	3289.6	2954.2
27.5°	3685.0	3716.8	3798.4	3844.8	3817.6	3788.2	3724.7	3585.3	3500.3	3416.5	3048.2
30°	3874.3	3894.7	3980.8	4001.2	3972.9	3935.5	3867.5	3728.1	3653.3	3588.7	3184.2
32.5°	4053.3	4097.5	4168.9	4164.4	4125.8	4107.7	4045.4	3897.0	3855.0	3848.2	3374.6
35°	4232.4	4266.4	4329.8	4345.7	4311.7	4308.3	4263.0	4153.0	4154.2	4198.4	3671.5
37.5°	4386.5	4417.1	4491.9	4527.0	4533.8	4550.8	4532.7	4460.1	4563.3	4684.5	4064.7
40°	4515.7	4558.7	4653.9	4715.1	4785.4	4847.7	4851.1	4866.9	5074.3	5282.8	4578.0
42.5°	4616.5	4676.6	4814.8	4928.1	5089.0	5168.4	5231.8	5319.1	5668.1	5979.7	5183.1
45°	4748.0	4817.1	4989.3	5167.2	5418.8	5549.1	5637.5	5870.9	6366.1	6791.1	5804.1
47.5°	4965.5	5001.8	5177.4	5436.9	5767.8	5953.6	6125.9	6479.4	7115.1	7495.9	6320.8
50°	5245.4	5269.2	5401.8	5762.1	6190.5	6435.2	6749.1	7165.0	7892.5	8080.6	6613.1
52.5°	5554.8	5562.7	5662.4	6120.2	6664.1	6972.4	7323.6	7837.0	8525.9	8497.6	6806.9
55°	5914.0	5902.7	5987.6	6508.9	7225.1	7577.5	7986.5	8524.8	9075.5	8793.4	6918.0
57.5°	6325.3	6294.7	6377.4	7024.5	7943.5	8365.0	8780.9	9118.6	9501.6	9041.5	6971.2
60°	6755.9	6694.7	6793.3	7603.5	8790.0	9190.0	9535.6	9626.2	9950.3	9238.7	6879.4
62.5°	7099.3	7100.4	7284.0	8220.0	9660.2	10010.4	10193.9	10275.5	10336.7	9195.6	6396.7
65°	7635.3	7653.4	7946.9	9075.5	10667.6	10971.3	11097.1	10831.9	10353.7	8660.8	5671.5
67.5°	8188.2	8246.0	8783.2	10254.0	11831.4	12076.1	11914.1	10939.6	9891.4	7440.4	4300.4
70°	8368.4	8463.6	9348.6	11065.3	12529.4	12656.3	12107.9	10437.6	8268.7	4974.6	2164.3
72.5°	7668.1	7822.2	9023.4	10769.6	12084.1	11974.1	10833.0	8753.7	5256.7	1889.0	660.6
75°	5407.5	5475.4	7499.3	8933.9	9719.1	9407.5	8240.4	5643.2	2162.1	530.3	226.6
77.5°	2792.1	2759.3	4460.1	5927.6	6931.6	6608.6	5396.1	2921.3	819.3	221.0	140.5
80°	1443.7	1467.4	1929.8	3106.0	4231.2	3893.6	2877.1	1354.1	436.3	122.4	107.7
82.5°	809.1	759.2	1109.4	1356.4	1978.5	1551.3	1103.7	958.7	190.4	73.7	102.0
85°	147.3	154.1	608.5	733.2	686.7	436.3	355.8	640.2	55.5	40.8	71.4
87.5°	2.3	2.3	117.8	210.8	133.7	61.2	112.2	91.8	11.3	15.9	12.5
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°	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2	2631.2
2.5°	2618.7	2575.7	2495.2	2415.9	2315.1	2232.3	2176.8	2119.0	2060.1	2064.6	2078.2
5°	2573.4	2498.6	2340.0	2172.3	2011.4	1866.3	1723.5	1595.5	1543.4	1495.8	1498.0
7.5°	2528.1	2422.7	2190.4	1927.5	1683.9	1436.9	1257.8	1110.5	1032.3	973.4	956.4
10°	2507.7	2368.3	2053.3	1691.8	1346.2	1076.5	846.5	726.4	633.4	604.0	611.9
12.5°	2516.8	2341.1	1929.8	1478.8	1067.4	750.2	589.2	528.1	507.7	504.3	502.0
15°	2533.8	2321.9	1808.5	1243.1	784.1	557.5	495.2	483.9	481.6	479.3	480.5
17.5°	2556.4	2304.9	1679.3	1022.1	601.7	487.3	469.1	463.5	462.3	462.3	462.3
20°	2579.1	2285.6	1535.4	824.9	502.0	460.1	448.7	445.3	444.2	444.2	443.1
22.5°	2605.1	2268.6	1389.3	648.2	462.3	440.8	430.6	428.3	427.2	426.1	426.1
25°	2642.5	2247.1	1234.0	530.3	437.4	422.7	412.5	410.2	409.1	404.5	405.7
27.5°	2692.4	2231.2	1074.2	457.8	414.7	400.0	393.2	389.8	387.5	384.1	385.3
30°	2760.4	2217.6	904.3	418.1	388.7	376.2	369.4	367.1	364.9	361.5	361.5
32.5°	2878.2	2223.3	725.2	386.4	364.9	350.1	343.3	341.1	338.8	335.4	335.4
35°	3055.0	2256.1	580.2	359.2	336.5	321.8	315.0	315.0	311.6	307.1	306.0
37.5°	3344.0	2340.0	465.7	333.2	309.4	295.8	287.8	285.6	282.2	275.4	274.2
40°	3685.0	2470.3	392.1	307.1	284.4	270.8	264.0	257.2	248.2	241.4	240.2
42.5°	4113.4	2604.0	339.9	281.0	260.6	248.2	240.2	228.9	215.3	206.2	205.1
45°	4559.9	2726.4	304.8	257.2	238.0	227.8	218.7	200.6	183.6	172.2	171.1
47.5°	4893.0	2749.1	276.5	234.6	218.7	208.5	196.0	173.4	150.7	140.5	137.1
50°	5050.5	2639.1	247.0	211.9	199.4	188.1	172.2	146.2	121.2	108.8	106.5
52.5°	5106.0	2448.8	223.2	191.5	180.2	166.6	147.3	117.8	95.2	82.7	81.6
55°	5083.4	2208.5	201.7	172.2	157.5	141.6	122.4	94.1	70.3	60.1	57.8
57.5°	4964.4	1902.6	180.2	153.0	134.8	119.0	97.5	70.3	47.6	38.5	37.4
60°	4643.7	1485.6	158.6	131.4	114.4	97.5	77.1	49.9	29.5	21.5	21.5
62.5°	4102.1	1102.6	138.2	109.9	96.3	78.2	54.4	31.7	15.9	11.3	10.2
65°	3427.8	813.6	115.6	92.9	80.5	61.2	38.5	19.3	7.9	3.4	2.3
67.5°	2392.1	502.0	96.3	75.9	65.7	44.2	23.8	7.9	3.4	0.0	0.0
70°	1086.7	239.1	73.7	57.8	49.9	31.7	12.5	4.5	2.3	0.0	0.0
72.5°	337.7	125.8	52.1	41.9	34.0	20.4	6.8	3.4	2.3	0.0	0.0
75°	156.4	80.5	32.9	22.7	19.3	10.2	4.5	2.3	1.1	0.0	0.0
77.5°	116.7	62.3	19.3	12.5	10.2	6.8	3.4	2.3	1.1	0.0	0.0
80°	102.0	31.7	11.3	7.9	5.7	4.5	2.3	1.1	0.0	0.0	0.0
82.5°	91.8	15.9	6.8	4.5	3.4	2.3	1.1	1.1	0.0	0.0	0.0
85°	49.9	9.1	4.5	3.4	2.3	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	9.1	4.5	3.4	2.3	2.3	1.1	1.1	1.1	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)