

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: P651224

Luminaire Tested: **GALN-SA2D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10719.4 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

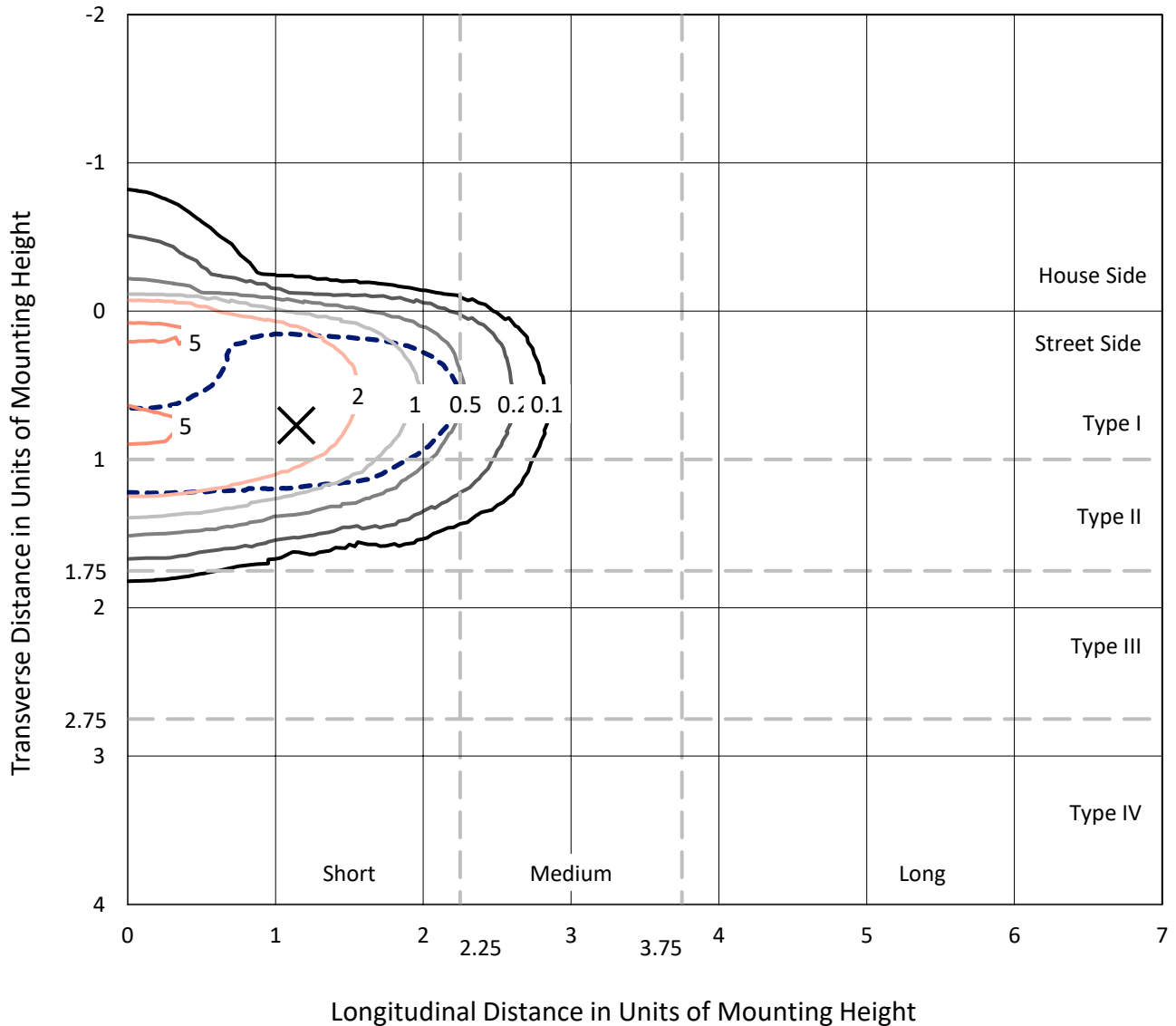
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

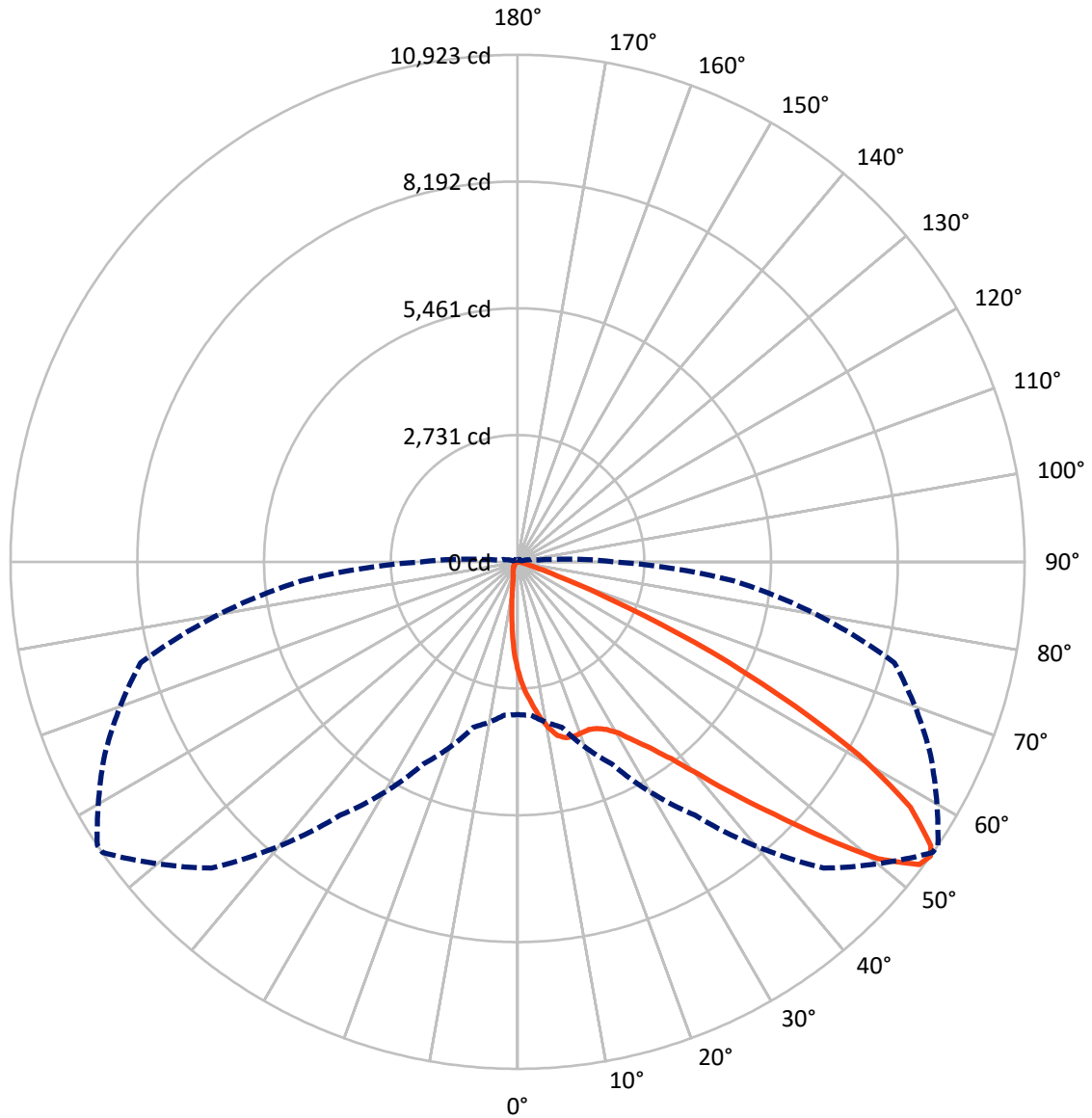
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.9	0.0	506.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10212.5	0.0	10212.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	10719.4	0.0	10719.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	2.0
10°-20°	568.9	5.3
20°-30°	985.3	9.2
30°-40°	1700.8	15.9
40°-50°	2894.8	27.0
50°-60°	2864.8	26.7
60°-70°	1307.5	12.2
70°-80°	167.9	1.6
80°-90°	18.9	0.2
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°	10719.4	100.0
0°-180°	10719.4	100.0

Coefficient of Utilization

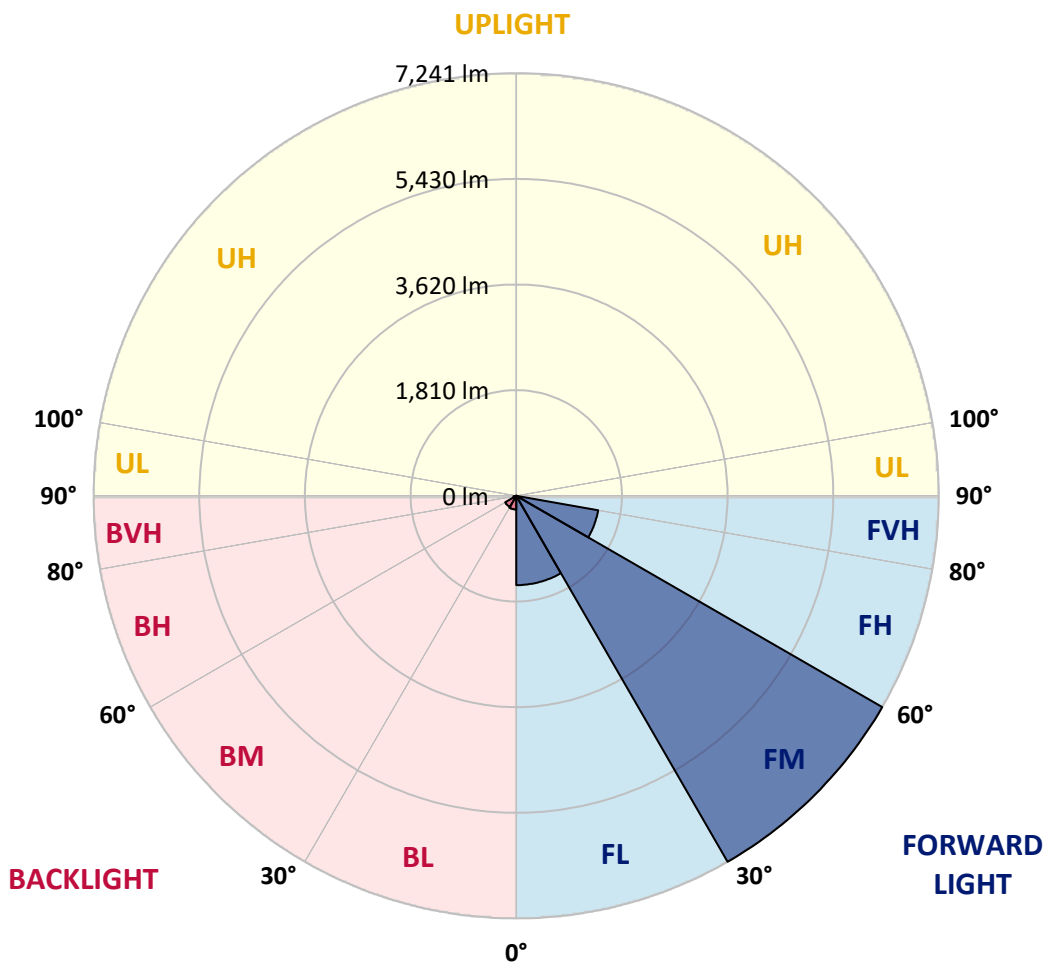


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.2	14.3			
FM (30°-60°)	7240.7	67.5			
FH (60°-80°)	1424.7	13.3			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	234.4	2.2	B1/500		
BM (30°-60°)	219.7	2.0	B0/220		
BH (60°-80°)	50.8	0.5	B0/110		G0/110
BVH (80°-90°)	2.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5
2.5°	3026.7	3005.6	2976.7	2954.3	2901.5	2825.6	2745.3	2745.3	2667.9	2560.2	2450.3
5°	3490.9	3477.2	3449.0	3391.2	3331.9	3225.5	3064.3	3036.0	2897.9	2702.6	2497.3
7.5°	3679.7	3686.2	3687.7	3672.5	3644.3	3539.4	3379.6	3360.0	3139.5	2877.6	2558.7
10°	3498.9	3530.7	3561.8	3624.7	3713.7	3739.0	3648.6	3628.3	3411.4	3054.8	2625.3
12.5°	3229.9	3247.2	3264.6	3363.7	3542.3	3747.0	3841.7	3841.0	3657.3	3231.3	2709.9
15°	3104.7	3119.9	3121.4	3165.5	3320.3	3618.2	3924.2	3935.0	3897.4	3449.0	2801.0
17.5°	3130.8	3143.1	3133.0	3143.8	3224.8	3476.4	3914.8	3950.9	4092.0	3658.0	2883.5
20°	3300.8	3324.6	3285.5	3255.2	3279.7	3438.8	3882.9	3933.5	4229.4	3862.0	2958.6
22.5°	3606.0	3619.0	3569.8	3486.6	3443.2	3517.7	3874.2	3924.2	4346.5	4029.0	3002.0
25°	3945.1	3940.8	3886.5	3793.2	3702.2	3676.9	3931.4	3976.2	4443.4	4179.4	3015.1
27.5°	4284.3	4297.3	4206.2	4090.5	3981.3	3915.4	4059.4	4092.6	4552.6	4350.8	3031.0
30°	4678.5	4657.5	4567.8	4435.4	4310.4	4218.5	4265.5	4274.9	4703.0	4577.9	3072.9
32.5°	5191.2	5133.4	5032.8	4801.4	4711.7	4556.2	4567.8	4579.4	4886.0	4802.9	3123.6
35°	5886.9	5884.1	5687.3	5375.7	5157.3	4964.2	4913.5	4922.9	5163.0	5137.0	3235.7
37.5°	6724.5	6736.0	6511.8	6197.9	5795.8	5489.2	5385.0	5386.5	5583.9	5598.4	3406.3
40°	7406.4	7436.8	7303.0	7091.1	6694.0	6214.6	6039.6	6023.7	6175.5	6157.5	3650.0
42.5°	7700.0	7728.3	7778.2	7851.9	7633.5	7237.9	6825.0	6846.7	6892.9	6766.3	3923.4
45°	7556.1	7601.0	7797.0	8252.6	8457.9	8324.9	7832.4	7756.5	7560.5	7428.1	4198.3
47.5°	6956.6	7065.8	7393.4	8152.1	8871.0	9320.8	8969.3	8868.8	8228.7	7911.2	4373.3
50°	5970.8	5977.3	6433.7	7403.5	8656.8	9949.2	10130.0	10054.8	8851.4	8182.4	4461.5
52.5°	4328.5	4470.9	4888.9	6012.1	7729.7	9853.7	10869.9	10838.8	9493.6	8321.3	4588.7
54°	3290.6	3318.1	3689.8	4804.3	6664.4	9329.5	10915.4	10922.7	9812.5	8405.2	4664.0
55°	2697.6	2631.7	3022.3	4092.6	5937.5	8865.9	10766.5	10801.2	9955.8	8448.6	4719.7
57.5°	1278.7	1279.3	1578.1	2158.8	3718.7	6884.3	9855.9	9978.9	9971.7	8523.0	4891.1
60°	647.2	651.6	717.5	996.6	1837.0	4576.5	8149.1	8442.0	9204.3	8533.9	4947.5
62.5°	452.7	447.7	436.8	479.5	773.1	2325.9	6067.1	6321.6	7820.1	8120.9	4768.1
65°	387.6	376.8	346.4	339.9	390.6	926.4	3778.8	4193.9	5970.8	7031.8	4257.6
67.5°	331.3	326.9	299.4	282.7	276.3	403.5	1949.8	2168.2	4081.1	5054.5	3224.8
70°	281.3	279.1	262.6	241.5	223.5	241.5	723.2	896.1	2274.5	2721.5	1521.6
72.5°	228.5	230.7	233.6	206.8	188.0	171.4	308.8	359.4	951.8	972.7	532.3
75°	200.3	198.1	198.1	180.1	156.9	127.3	170.0	183.0	291.5	270.5	123.7
77.5°	141.0	136.0	159.1	148.3	130.9	90.4	96.9	102.7	120.8	103.4	57.9
80°	97.6	97.6	102.0	133.0	117.9	65.9	59.3	63.7	71.6	61.5	33.3
82.5°	55.0	56.4	66.5	70.9	68.7	44.2	39.0	39.8	47.8	42.0	20.9
85°	6.5	10.8	38.3	37.6	28.2	19.5	21.7	22.5	29.7	26.1	12.3
87.5°	0.8	1.4	8.0	10.1	7.2	8.0	8.0	8.0	10.1	11.6	8.7
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°	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5	2381.5
2.5°	2391.0	2336.0	2205.1	2053.2	1956.3	1798.6	1665.6	1569.4	1545.5	1499.3	1513.0
5°	2388.0	2273.8	2006.9	1724.9	1424.0	1199.8	1032.7	901.1	843.3	804.9	778.2
7.5°	2389.5	2210.8	1782.8	1333.6	974.1	754.3	599.5	519.2	465.7	443.3	446.2
10°	2393.8	2140.0	1522.4	987.9	657.4	487.4	392.7	354.4	336.3	333.4	332.7
12.5°	2404.0	2062.6	1273.6	733.4	459.9	354.4	318.2	305.2	299.4	299.4	297.2
15°	2414.8	1977.3	1066.7	545.3	354.4	304.4	287.9	281.3	277.7	277.7	277.0
17.5°	2414.8	1878.9	873.6	423.1	305.2	279.9	266.8	258.2	255.3	255.3	254.6
20°	2399.6	1764.7	702.2	340.6	277.0	256.8	243.7	234.3	230.7	229.3	228.5
22.5°	2346.8	1612.0	559.0	292.9	253.8	236.5	219.8	209.0	206.1	204.7	205.4
25°	2252.8	1439.9	442.6	257.4	232.9	211.9	197.5	189.5	186.6	186.6	187.3
27.5°	2155.9	1259.8	350.8	230.7	207.6	188.7	177.2	172.2	171.4	173.6	174.3
30°	2066.3	1079.0	284.3	209.0	185.1	169.2	161.3	159.8	159.8	160.5	161.3
32.5°	1966.4	920.6	237.9	190.2	167.0	153.3	148.9	148.9	150.5	150.5	151.9
35°	1903.5	784.7	209.0	172.2	153.3	141.7	138.8	139.6	141.7	144.7	146.1
37.5°	1869.5	676.2	190.2	157.7	140.3	132.4	129.4	130.9	136.0	141.0	141.7
40°	1872.4	594.5	175.0	145.3	130.2	121.5	119.3	123.7	128.8	133.8	134.5
42.5°	1904.2	533.7	160.5	130.9	121.5	109.2	108.5	112.9	115.0	120.1	120.8
45°	1941.8	489.6	145.3	115.7	105.6	94.8	95.5	99.1	102.0	109.9	111.3
47.5°	1953.4	459.3	128.0	98.4	86.8	83.2	83.9	86.0	91.8	99.1	99.8
50°	1966.4	440.4	111.3	83.2	73.8	73.1	73.8	75.2	78.8	81.7	81.0
52.5°	2022.1	439.7	97.6	72.3	62.9	64.3	65.1	64.3	61.5	57.1	55.7
54°	2074.2	441.9	91.2	67.3	57.9	60.0	59.3	55.7	48.4	44.2	42.0
55°	2116.1	444.0	87.5	63.7	55.0	55.7	56.4	49.2	39.8	35.4	34.0
57.5°	2198.5	439.0	78.8	55.7	48.4	45.6	44.8	32.5	21.7	18.8	17.3
60°	2157.3	396.3	71.6	47.8	41.2	36.9	30.4	18.1	10.8	8.0	8.0
62.5°	1995.4	336.3	63.7	39.0	34.0	28.2	15.9	10.1	5.0	2.9	2.2
65°	1784.9	282.7	57.1	31.1	26.7	18.1	8.7	6.5	2.2	0.0	0.0
67.5°	1327.1	209.7	48.4	24.6	20.3	11.6	5.8	3.6	0.8	0.0	0.0
70°	614.8	128.0	41.2	18.8	14.5	8.7	4.4	2.2	0.0	0.0	0.0
72.5°	176.4	80.3	34.0	13.7	10.1	7.2	3.6	1.4	0.8	0.0	0.0
75°	61.5	64.3	25.3	10.1	8.0	5.0	2.9	1.4	0.8	0.0	0.0
77.5°	36.9	52.1	15.9	8.7	6.5	4.4	2.9	1.4	0.8	0.8	0.0
80°	20.9	34.7	10.1	7.2	5.8	3.6	2.2	1.4	0.8	0.8	0.0
82.5°	11.6	16.7	8.0	6.5	5.0	3.6	2.2	1.4	0.8	0.8	0.8
85°	9.4	8.7	6.5	5.8	4.4	2.9	2.2	0.8	0.0	0.0	0.0
87.5°	7.2	5.8	5.8	5.8	4.4	2.9	2.2	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)