

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: P451585

Luminaire Tested: **GALN-SA2C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451585
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-SA2C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9687 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

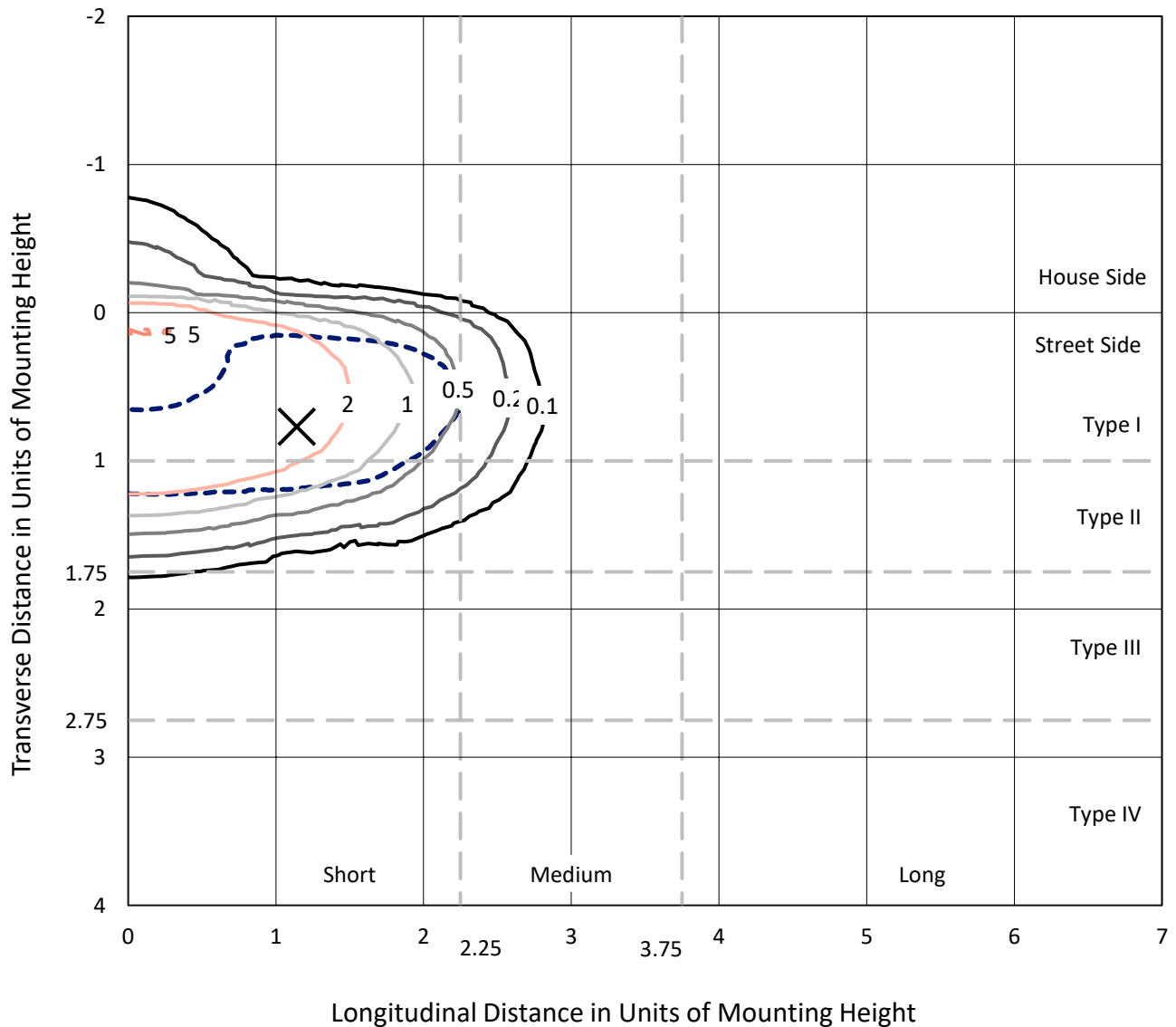
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

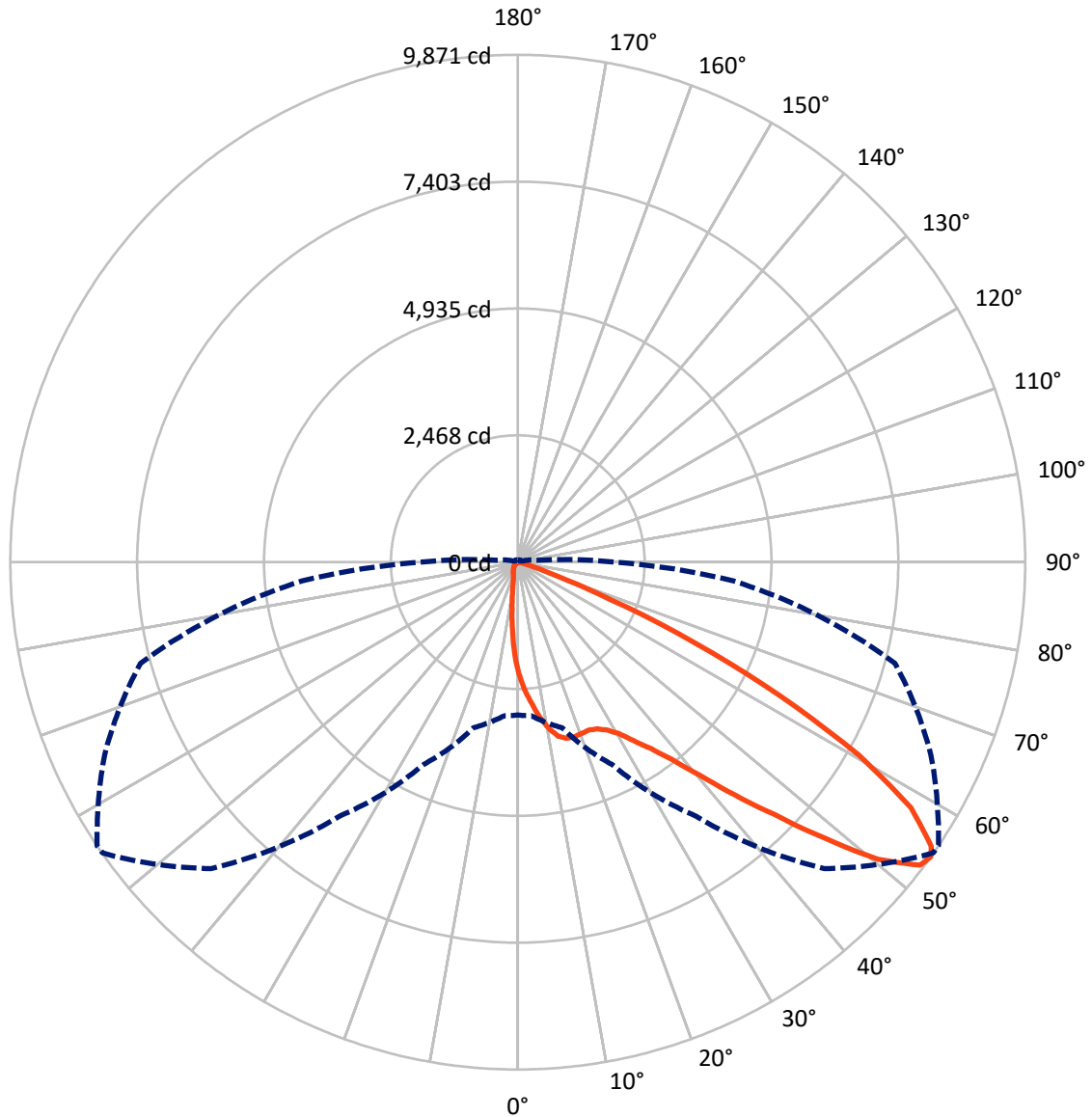
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	458.1	0.0	458.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9228.9	0.0	9228.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	9687.0	0.0	9687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	2.0
10°-20°	514.1	5.3
20°-30°	890.4	9.2
30°-40°	1537.0	15.9
40°-50°	2616.0	27.0
50°-60°	2588.9	26.7
60°-70°	1181.6	12.2
70°-80°	151.7	1.6
80°-90°	17.1	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°	9687.0	100.0
0°-180°	9687.0	100.0

Coefficient of Utilization



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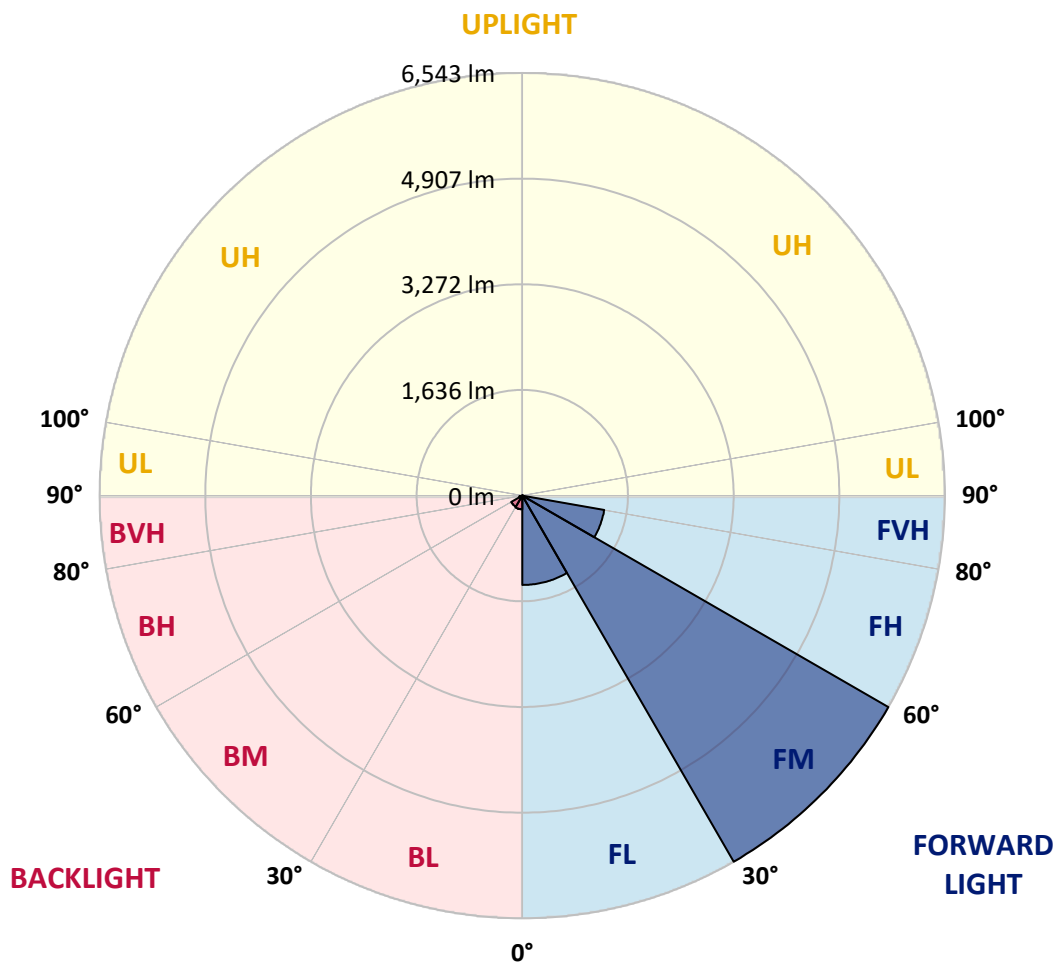
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1382.9	14.3			
FM	(30°-60°)	6543.3	67.5			
FH	(60°-80°)	1287.5	13.3			G1/1800
FVH	(80°-90°)	15.3	0.2			G1/100
BL	(0°-30°)	211.8	2.2	B1/500		
BM	(30°-60°)	198.5	2.0	B0/220		
BH	(60°-80°)	45.9	0.5	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	2735.1	2716.2	2690.1	2669.8	2622.1	2553.5	2480.9	2480.9	2411.0	2313.6	2214.3
5°	3154.7	3142.3	3116.8	3064.5	3011.0	2914.9	2769.1	2743.6	2618.8	2442.4	2256.7
7.5°	3325.3	3331.2	3332.5	3318.8	3293.3	3198.5	3054.1	3036.4	2837.1	2600.5	2312.3
10°	3161.9	3190.7	3218.8	3275.6	3356.0	3378.9	3297.2	3278.9	3082.8	2760.6	2372.4
12.5°	2918.8	2934.5	2950.2	3039.7	3201.1	3386.1	3471.7	3471.1	3305.1	2920.1	2448.9
15°	2805.7	2819.5	2820.8	2860.6	3000.5	3269.8	3546.2	3556.0	3522.0	3116.8	2531.2
17.5°	2829.3	2840.4	2831.2	2841.0	2914.2	3141.7	3537.7	3570.4	3697.8	3305.7	2605.7
20°	2982.8	3004.4	2969.1	2941.7	2963.9	3107.7	3509.0	3554.7	3822.0	3490.0	2673.7
22.5°	3258.6	3270.4	3226.0	3150.8	3111.6	3178.9	3501.1	3546.2	3927.9	3641.0	2712.9
25°	3565.2	3561.2	3512.2	3427.9	3345.6	3322.7	3552.8	3593.3	4015.5	3776.9	2724.7
27.5°	3871.7	3883.5	3801.1	3696.5	3597.8	3538.4	3668.4	3698.5	4114.2	3931.8	2739.1
30°	4227.9	4208.9	4127.9	4008.3	3895.2	3812.2	3854.7	3863.2	4250.1	4137.0	2777.0
32.5°	4691.3	4639.0	4548.1	4339.0	4257.9	4117.4	4127.9	4138.3	4415.5	4340.3	2822.7
35°	5320.0	5317.4	5139.6	4857.9	4660.5	4486.0	4440.3	4448.8	4665.8	4642.2	2924.0
37.5°	6076.8	6087.3	5884.7	5601.0	5237.6	4960.5	4866.4	4867.7	5046.1	5059.2	3078.3
40°	6693.1	6720.6	6599.6	6408.2	6049.4	5616.0	5457.9	5443.5	5580.7	5564.4	3298.5
42.5°	6958.5	6983.9	7029.0	7095.7	6898.3	6540.8	6167.6	6187.3	6229.1	6114.7	3545.6
45°	6828.4	6868.9	7046.0	7457.8	7643.4	7523.1	7078.1	7009.4	6832.3	6712.7	3793.9
47.5°	6286.6	6385.3	6681.3	7366.9	8016.6	8423.1	8105.5	8014.6	7436.2	7149.3	3952.1
50°	5395.8	5401.7	5814.1	6690.5	7823.1	8991.0	9154.4	9086.4	7998.9	7394.4	4031.8
52.5°	3911.6	4040.3	4418.1	5433.0	6985.2	8904.8	9823.0	9794.9	8579.3	7519.9	4146.8
54°	2973.7	2998.5	3334.5	4341.6	6022.6	8430.9	9864.2	9870.7	8867.5	7595.7	4214.8
55°	2437.8	2378.3	2731.2	3698.5	5365.7	8012.0	9729.5	9760.9	8996.9	7634.9	4265.1
57.5°	1155.5	1156.1	1426.1	1950.9	3360.6	6221.2	8906.7	9017.8	9011.3	7702.2	4420.0
60°	584.9	588.9	648.3	900.6	1660.0	4135.7	7364.3	7629.0	8317.9	7712.0	4471.0
62.5°	409.1	404.6	394.8	433.3	698.7	2101.8	5482.7	5712.8	7066.9	7338.8	4308.9
65°	350.3	340.5	313.1	307.2	352.9	837.2	3414.9	3790.0	5395.8	6354.6	3847.5
67.5°	299.3	295.4	270.6	255.5	249.7	364.7	1762.0	1959.4	3688.0	4567.7	2914.2
70°	254.2	252.3	237.2	218.3	202.0	218.3	653.6	809.8	2055.4	2459.3	1375.1
72.5°	206.5	208.5	211.1	186.9	169.9	154.9	279.1	324.8	860.1	879.0	481.0
75°	181.0	179.1	179.1	162.7	141.8	115.0	153.6	165.4	263.4	244.4	111.8
77.5°	127.4	122.9	143.8	134.0	118.3	81.7	87.6	92.8	109.1	93.5	52.3
80°	88.2	88.2	92.2	120.3	106.5	59.5	53.6	57.5	64.7	55.6	30.1
82.5°	49.7	51.0	60.1	64.0	62.1	39.9	35.3	35.9	43.1	37.9	19.0
85°	5.9	9.8	34.6	34.0	25.5	17.6	19.6	20.3	26.8	23.5	11.1
87.5°	0.7	1.3	7.2	9.1	6.5	7.2	7.2	7.2	9.1	10.5	7.8
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°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	2160.7	2111.0	1992.7	1855.5	1767.9	1625.4	1505.1	1418.2	1396.7	1354.8	1367.2
5°	2158.1	2054.8	1813.6	1558.7	1286.9	1084.3	933.3	814.3	762.1	727.4	703.2
7.5°	2159.4	1997.9	1611.0	1205.2	880.3	681.7	541.8	469.3	420.9	400.6	403.2
10°	2163.3	1933.9	1375.7	892.8	594.1	440.5	354.9	320.2	303.9	301.3	300.6
12.5°	2172.4	1864.0	1150.9	662.7	415.7	320.2	287.6	275.8	270.6	270.6	268.6
15°	2182.2	1786.8	964.0	492.8	320.2	275.1	260.1	254.2	251.0	251.0	250.3
17.5°	2182.2	1697.9	789.5	382.3	275.8	252.9	241.2	233.3	230.7	230.7	230.1
20°	2168.5	1594.7	634.6	307.8	250.3	232.0	220.2	211.8	208.5	207.2	206.5
22.5°	2120.8	1456.8	505.2	264.7	229.4	213.7	198.7	188.9	186.3	185.0	185.6
25°	2035.8	1301.2	400.0	232.7	210.4	191.5	178.4	171.2	168.6	168.6	169.3
27.5°	1948.3	1138.5	317.0	208.5	187.6	170.6	160.1	155.5	154.9	156.9	157.5
30°	1867.2	975.1	256.8	188.9	167.3	152.9	145.7	144.4	144.4	145.1	145.7
32.5°	1777.0	832.0	215.0	171.9	151.0	138.6	134.6	134.6	135.9	135.9	137.2
35°	1720.2	709.1	188.9	155.5	138.6	128.1	125.5	126.1	128.1	130.7	132.0
37.5°	1689.5	611.1	171.9	142.5	126.8	119.6	117.0	118.3	122.9	127.4	128.1
40°	1692.1	537.2	158.2	131.4	117.6	109.8	107.8	111.8	116.3	120.9	121.6
42.5°	1720.8	482.3	145.1	118.3	109.8	98.7	98.0	102.0	103.9	108.5	109.1
45°	1754.8	442.5	131.4	104.6	95.4	85.6	86.3	89.5	92.2	99.3	100.6
47.5°	1765.3	415.0	115.7	88.9	78.4	75.2	75.8	77.8	83.0	89.5	90.2
50°	1777.0	398.0	100.6	75.2	66.7	66.0	66.7	68.0	71.2	73.9	73.2
52.5°	1827.4	397.4	88.2	65.4	56.9	58.2	58.8	58.2	55.6	51.6	50.3
54°	1874.4	399.3	82.3	60.8	52.3	54.2	53.6	50.3	43.8	39.9	37.9
55°	1912.3	401.3	79.1	57.5	49.7	50.3	51.0	44.4	35.9	32.0	30.7
57.5°	1986.8	396.7	71.2	50.3	43.8	41.2	40.5	29.4	19.6	17.0	15.7
60°	1949.6	358.2	64.7	43.1	37.3	33.3	27.4	16.3	9.8	7.2	7.2
62.5°	1803.2	303.9	57.5	35.3	30.7	25.5	14.4	9.1	4.6	2.6	2.0
65°	1613.0	255.5	51.6	28.1	24.2	16.3	7.8	5.9	2.0	0.0	0.0
67.5°	1199.3	189.5	43.8	22.2	18.3	10.5	5.2	3.3	0.7	0.0	0.0
70°	555.5	115.7	37.3	17.0	13.1	7.8	3.9	2.0	0.0	0.0	0.0
72.5°	159.5	72.5	30.7	12.4	9.1	6.5	3.3	1.3	0.7	0.0	0.0
75°	55.6	58.2	22.9	9.1	7.2	4.6	2.6	1.3	0.7	0.0	0.0
77.5°	33.3	47.1	14.4	7.8	5.9	3.9	2.6	1.3	0.7	0.7	0.0
80°	19.0	31.4	9.1	6.5	5.2	3.3	2.0	1.3	0.7	0.7	0.0
82.5°	10.5	15.0	7.2	5.9	4.6	3.3	2.0	1.3	0.7	0.7	0.7
85°	8.5	7.8	5.9	5.2	3.9	2.6	2.0	0.7	0.0	0.0	0.0
87.5°	6.5	5.2	5.2	5.2	3.9	2.6	2.0	0.7	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)