

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: P454137

Luminaire Tested: **GALN-SA5B-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454137
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-SA5B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 19525 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

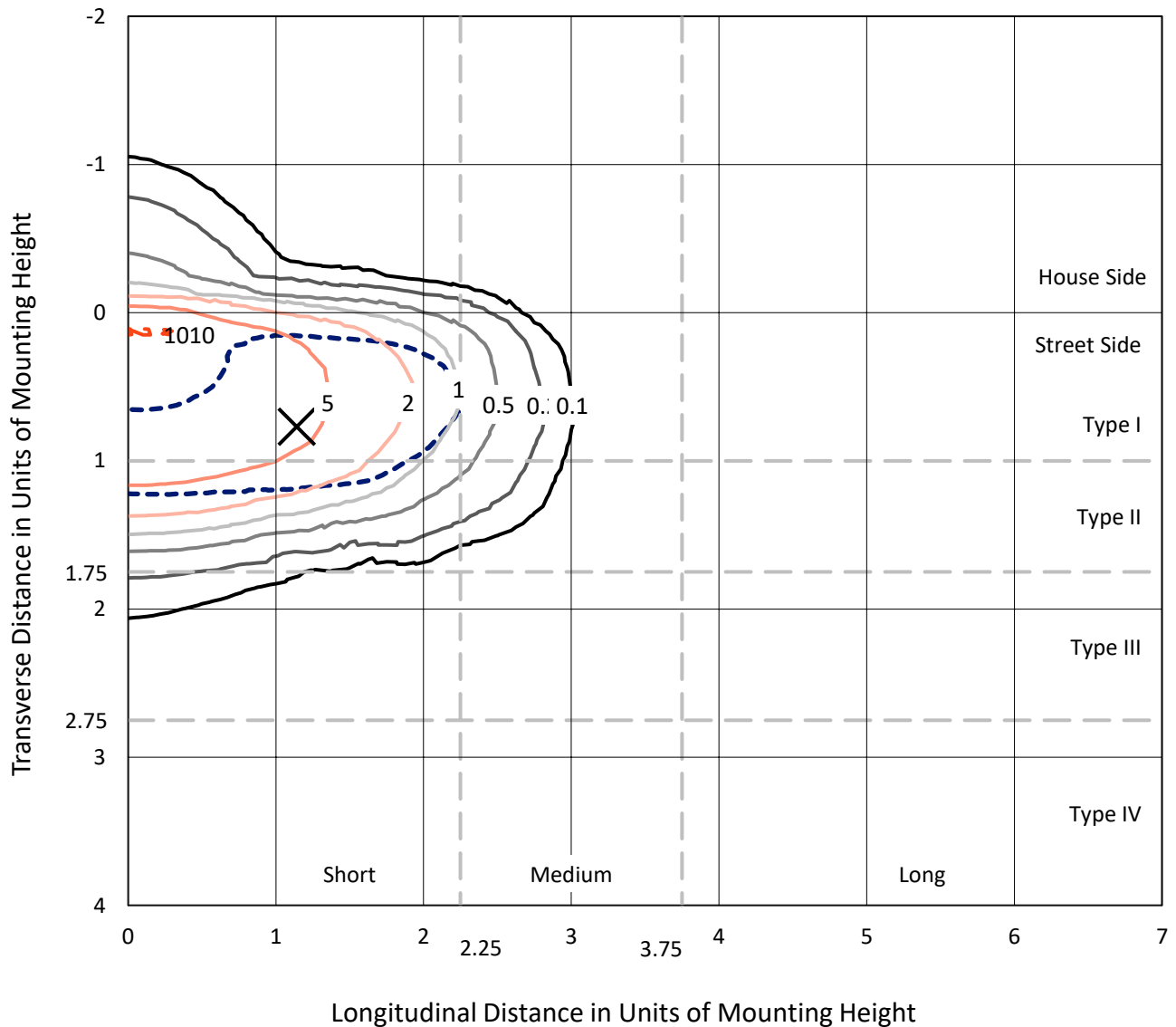
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

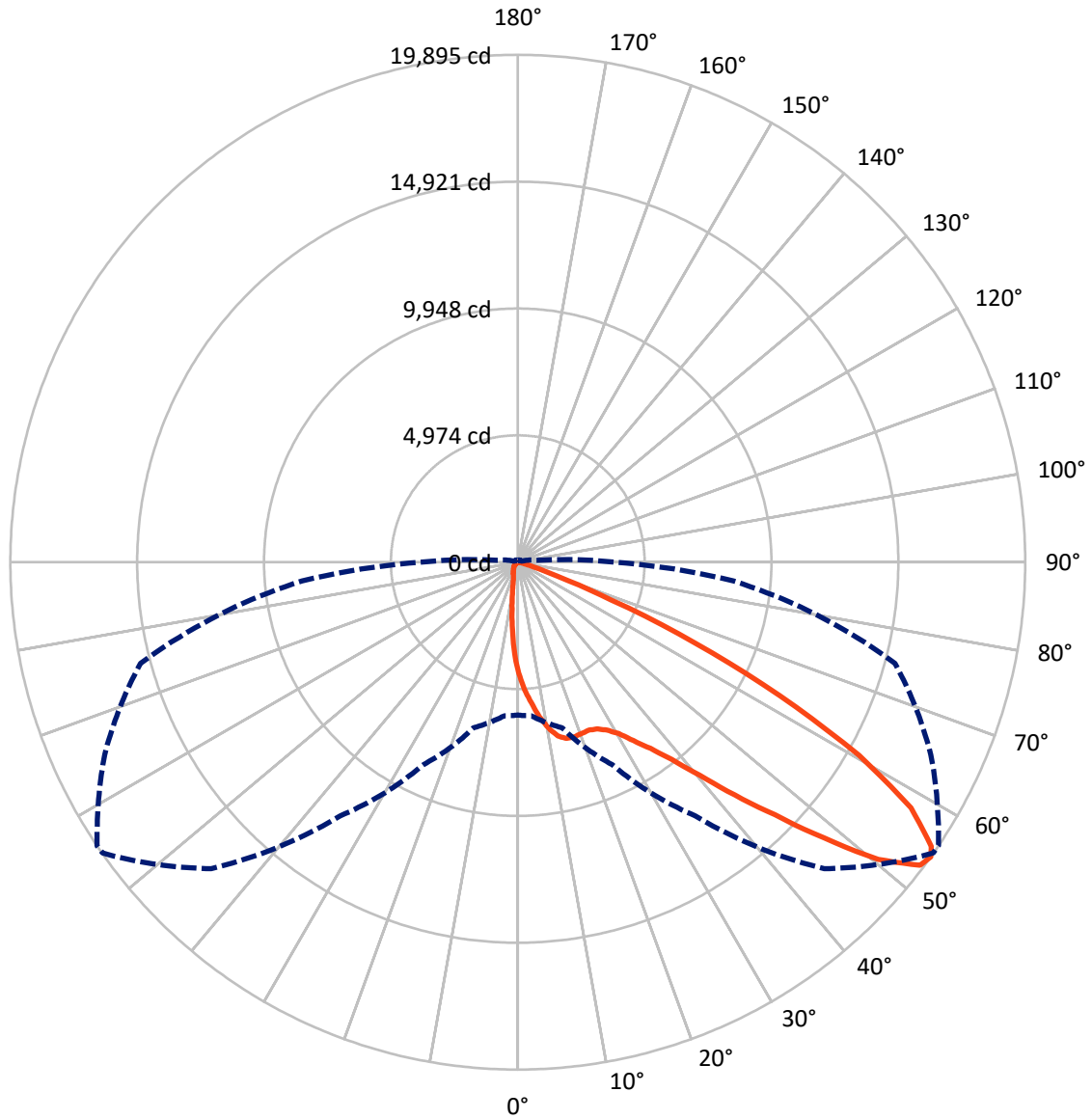
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	923.3	0.0	923.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18601.7	0.0	18601.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	19525.0	0.0	19525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.3	2.0
10°-20°	1036.3	5.3
20°-30°	1794.7	9.2
30°-40°	3097.9	15.9
40°-50°	5272.8	27.0
50°-60°	5218.1	26.7
60°-70°	2381.6	12.2
70°-80°	305.9	1.6
80°-90°	34.5	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°	19525.0	100.0
0°-180°	19525.0	100.0

Coefficient of Utilization



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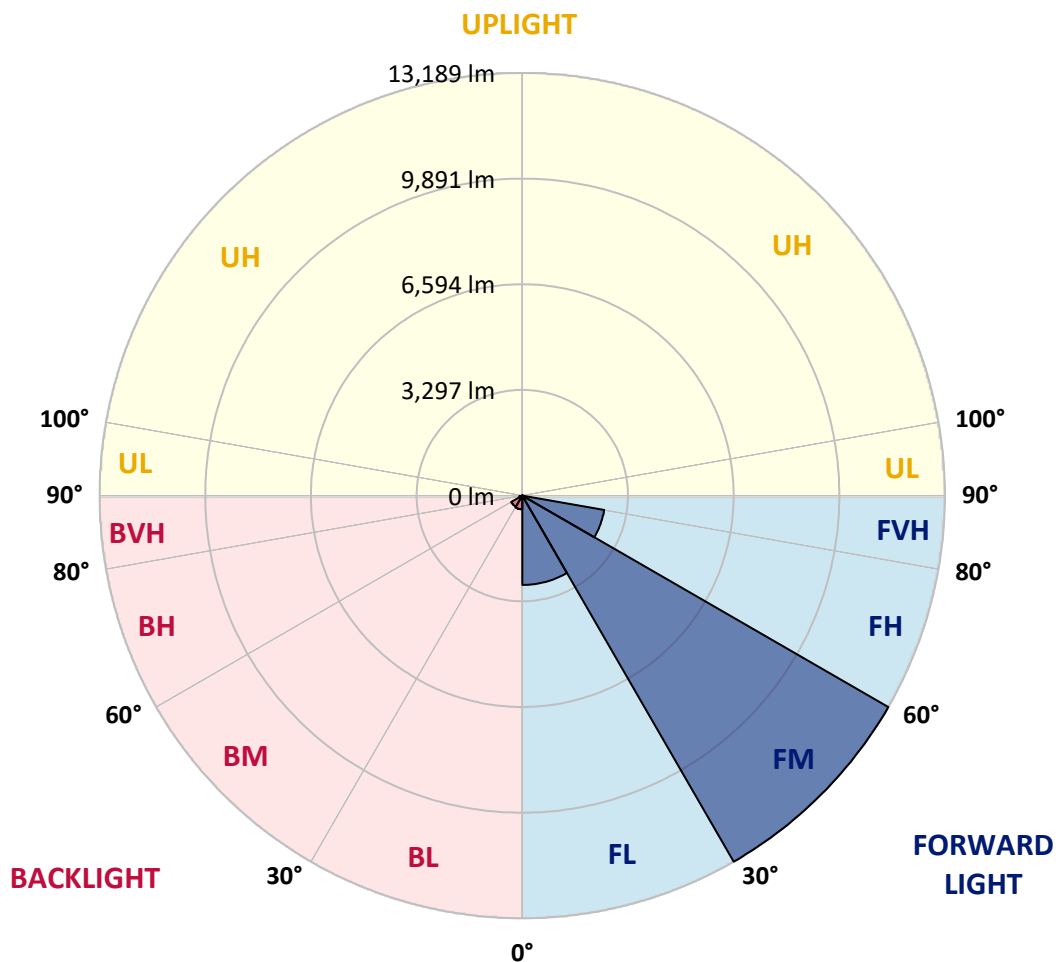
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.3	14.3			
FM (30°-60°)	13188.6	67.5			
FH (60°-80°)	2595.0	13.3			G2/5000
FVH (80°-90°)	30.8	0.2			G1/100
BL (0°-30°)	427.0	2.2	B1/500		
BM (30°-60°)	400.1	2.0	B1/1000		
BH (60°-80°)	92.4	0.5	B0/110		G0/110
BVH (80°-90°)	3.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	5512.9	5474.7	5422.0	5381.2	5285.0	5146.7	5000.5	5000.5	4859.5	4663.3	4463.0
5°	6358.6	6333.6	6282.2	6176.9	6068.8	5875.2	5581.4	5530.1	5278.5	4922.8	4548.7
7.5°	6702.5	6714.3	6717.0	6689.3	6637.9	6446.9	6155.8	6120.2	5718.4	5241.6	4660.6
10°	6373.1	6431.1	6487.7	6602.3	6764.4	6810.5	6645.8	6608.9	6213.7	5564.3	4781.8
12.5°	5883.1	5914.7	5946.3	6126.8	6452.2	6825.0	6997.5	6996.2	6661.6	5885.7	4936.0
15°	5655.2	5682.9	5685.5	5765.9	6047.8	6590.5	7147.7	7167.5	7099.0	6282.2	5101.9
17.5°	5702.6	5725.0	5706.6	5726.3	5873.9	6332.3	7130.6	7196.5	7453.3	6662.9	5252.1
20°	6012.2	6055.7	5984.5	5929.2	5974.0	6263.8	7072.6	7164.8	7703.6	7034.4	5389.1
22.5°	6568.1	6591.8	6502.2	6350.7	6271.7	6407.4	7056.8	7147.7	7917.0	7338.7	5468.1
25°	7185.9	7178.0	7079.2	6909.3	6743.3	6697.2	7160.9	7242.6	8093.5	7612.7	5491.9
27.5°	7803.7	7827.4	7661.5	7450.7	7251.8	7131.9	7394.0	7454.6	8292.5	7924.9	5520.8
30°	8521.7	8483.5	8320.1	8079.0	7851.2	7683.9	7769.5	7786.6	8566.5	8338.6	5597.2
32.5°	9455.6	9350.2	9167.1	8745.6	8582.3	8299.0	8320.1	8341.2	8899.7	8748.2	5689.5
35°	10722.9	10717.6	10359.3	9791.5	9393.7	9042.0	8949.8	8966.9	9404.3	9356.8	5893.6
37.5°	12248.3	12269.4	11861.0	11289.3	10556.9	9998.4	9808.7	9811.3	10170.9	10197.3	6204.5
40°	13490.5	13545.9	13302.2	12916.2	12193.0	11319.6	11000.8	10971.9	11248.5	11215.6	6648.5
42.5°	14025.4	14076.7	14167.6	14302.0	13904.2	13183.6	12431.4	12471.0	12555.3	12324.7	7146.4
45°	13763.2	13844.9	14201.9	15031.8	15405.9	15163.5	14266.4	14128.1	13771.1	13530.1	7647.0
47.5°	12671.2	12870.1	13466.8	14848.7	16158.1	16977.5	16337.2	16154.1	14988.3	14410.0	7965.8
50°	10875.7	10887.5	11718.8	13485.3	15768.2	18122.2	18451.5	18314.5	16122.5	14904.0	8126.5
52.5°	7884.1	8143.6	8905.0	10950.8	14079.4	17948.3	19799.1	19742.5	17292.3	15156.9	8358.3
54°	5993.7	6043.8	6720.9	8750.9	12139.0	16993.3	19882.1	19895.3	17873.2	15309.7	8495.3
55°	4913.6	4793.7	5505.0	7454.6	10815.1	16148.9	19610.8	19674.0	18134.1	15388.8	8596.7
57.5°	2329.0	2330.3	2874.4	3932.2	6773.6	12539.5	17952.3	18176.2	18163.0	15524.5	8909.0
60°	1179.0	1186.9	1306.8	1815.2	3346.0	8335.9	14843.4	15376.9	16765.4	15544.2	9011.7
62.5°	824.6	815.4	795.7	873.4	1408.2	4236.5	11050.9	11514.6	14244.0	14792.0	8685.0
65°	706.1	686.3	631.0	619.1	711.3	1687.5	6882.9	7639.1	10875.7	12808.2	7755.0
67.5°	603.3	595.4	545.4	515.1	503.2	735.1	3551.5	3949.3	7433.6	9206.7	5873.9
70°	512.4	508.5	478.2	440.0	407.0	440.0	1317.3	1632.1	4142.9	4957.0	2771.6
72.5°	416.3	420.2	425.5	376.7	342.5	312.2	562.5	654.7	1733.6	1771.8	969.5
75°	364.9	360.9	360.9	328.0	285.9	231.8	309.6	333.3	530.9	492.7	225.3
77.5°	256.9	247.7	289.8	270.0	238.4	164.7	176.5	187.1	220.0	188.4	105.4
80°	177.8	177.8	185.7	242.4	214.7	119.9	108.0	115.9	130.4	112.0	60.6
82.5°	100.1	102.7	121.2	129.1	125.1	80.4	71.1	72.5	86.9	76.4	38.2
85°	11.9	19.8	69.8	68.5	51.4	35.6	39.5	40.8	54.0	47.4	22.4
87.5°	1.3	2.6	14.5	18.4	13.2	14.5	14.5	14.5	18.4	21.1	15.8
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°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4355.0	4254.9	4016.5	3739.8	3563.3	3276.1	3033.8	2858.6	2815.1	2730.8	2755.8
5°	4349.7	4141.6	3655.5	3141.8	2593.8	2185.4	1881.1	1641.4	1536.0	1466.2	1417.4
7.5°	4352.4	4027.0	3247.2	2429.1	1774.4	1374.0	1092.0	945.8	848.3	807.5	812.8
10°	4360.3	3897.9	2772.9	1799.4	1197.4	887.9	715.3	645.5	612.5	607.3	606.0
12.5°	4378.7	3757.0	2319.8	1335.7	837.8	645.5	579.6	555.9	545.4	545.4	541.4
15°	4398.5	3601.5	1943.0	993.2	645.5	554.6	524.3	512.4	505.8	505.8	504.5
17.5°	4398.5	3422.4	1591.3	770.6	555.9	509.8	486.1	470.3	465.0	465.0	463.7
20°	4370.8	3214.2	1279.1	620.5	504.5	467.6	443.9	426.8	420.2	417.6	416.3
22.5°	4274.7	2936.3	1018.3	533.5	462.4	430.8	400.5	380.7	375.4	372.8	374.1
25°	4103.4	2622.8	806.2	469.0	424.2	386.0	359.6	345.1	339.9	339.9	341.2
27.5°	3926.9	2294.7	638.9	420.2	378.1	343.8	322.7	313.5	312.2	316.2	317.5
30°	3763.5	1965.4	517.7	380.7	337.2	308.2	293.8	291.1	291.1	292.4	293.8
32.5°	3581.8	1676.9	433.4	346.5	304.3	279.3	271.4	271.4	274.0	274.0	276.6
35°	3467.2	1429.3	380.7	313.5	279.3	258.2	252.9	254.2	258.2	263.5	266.1
37.5°	3405.2	1231.7	346.5	287.2	255.6	241.1	235.8	238.4	247.7	256.9	258.2
40°	3410.5	1082.8	318.8	264.8	237.1	221.3	217.4	225.3	234.5	243.7	245.0
42.5°	3468.5	972.2	292.4	238.4	221.3	198.9	197.6	205.5	209.5	218.7	220.0
45°	3537.0	891.8	264.8	210.8	192.3	172.6	173.9	180.5	185.7	200.2	202.9
47.5°	3558.0	836.5	233.2	179.2	158.1	151.5	152.8	156.8	167.3	180.5	181.8
50°	3581.8	802.2	202.9	151.5	134.4	133.0	134.4	137.0	143.6	148.9	147.5
52.5°	3683.2	800.9	177.8	131.7	114.6	117.2	118.6	117.2	112.0	104.1	101.4
54°	3778.0	804.9	166.0	122.5	105.4	109.3	108.0	101.4	88.3	80.4	76.4
55°	3854.4	808.8	159.4	115.9	100.1	101.4	102.7	89.6	72.5	64.5	61.9
57.5°	4004.6	799.6	143.6	101.4	88.3	83.0	81.7	59.3	39.5	34.2	31.6
60°	3929.5	721.9	130.4	86.9	75.1	67.2	55.3	32.9	19.8	14.5	14.5
62.5°	3634.5	612.5	115.9	71.1	61.9	51.4	29.0	18.4	9.2	5.3	4.0
65°	3251.1	515.1	104.1	56.6	48.7	32.9	15.8	11.9	4.0	0.0	0.0
67.5°	2417.3	382.0	88.3	44.8	36.9	21.1	10.5	6.6	1.3	0.0	0.0
70°	1119.7	233.2	75.1	34.2	26.3	15.8	7.9	4.0	0.0	0.0	0.0
72.5°	321.4	146.2	61.9	25.0	18.4	13.2	6.6	2.6	1.3	0.0	0.0
75°	112.0	117.2	46.1	18.4	14.5	9.2	5.3	2.6	1.3	0.0	0.0
77.5°	67.2	94.8	29.0	15.8	11.9	7.9	5.3	2.6	1.3	1.3	0.0
80°	38.2	63.2	18.4	13.2	10.5	6.6	4.0	2.6	1.3	1.3	0.0
82.5°	21.1	30.3	14.5	11.9	9.2	6.6	4.0	2.6	1.3	1.3	1.3
85°	17.1	15.8	11.9	10.5	7.9	5.3	4.0	1.3	0.0	0.0	0.0
87.5°	13.2	10.5	10.5	10.5	7.9	5.3	4.0	1.3	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)