

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: P455993

Luminaire Tested: **GALN-SA7B-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455993
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-SA7B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27156 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

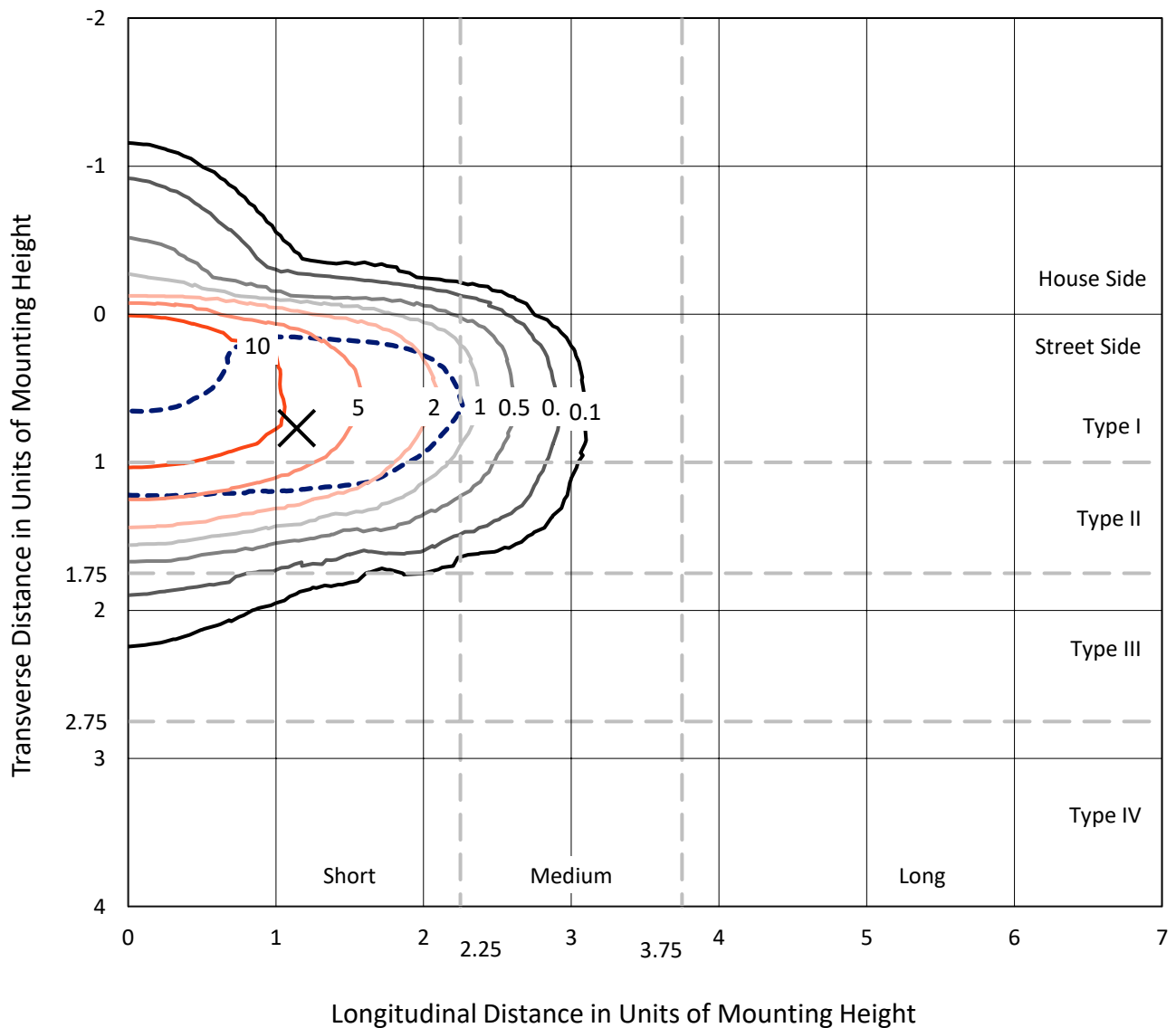
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

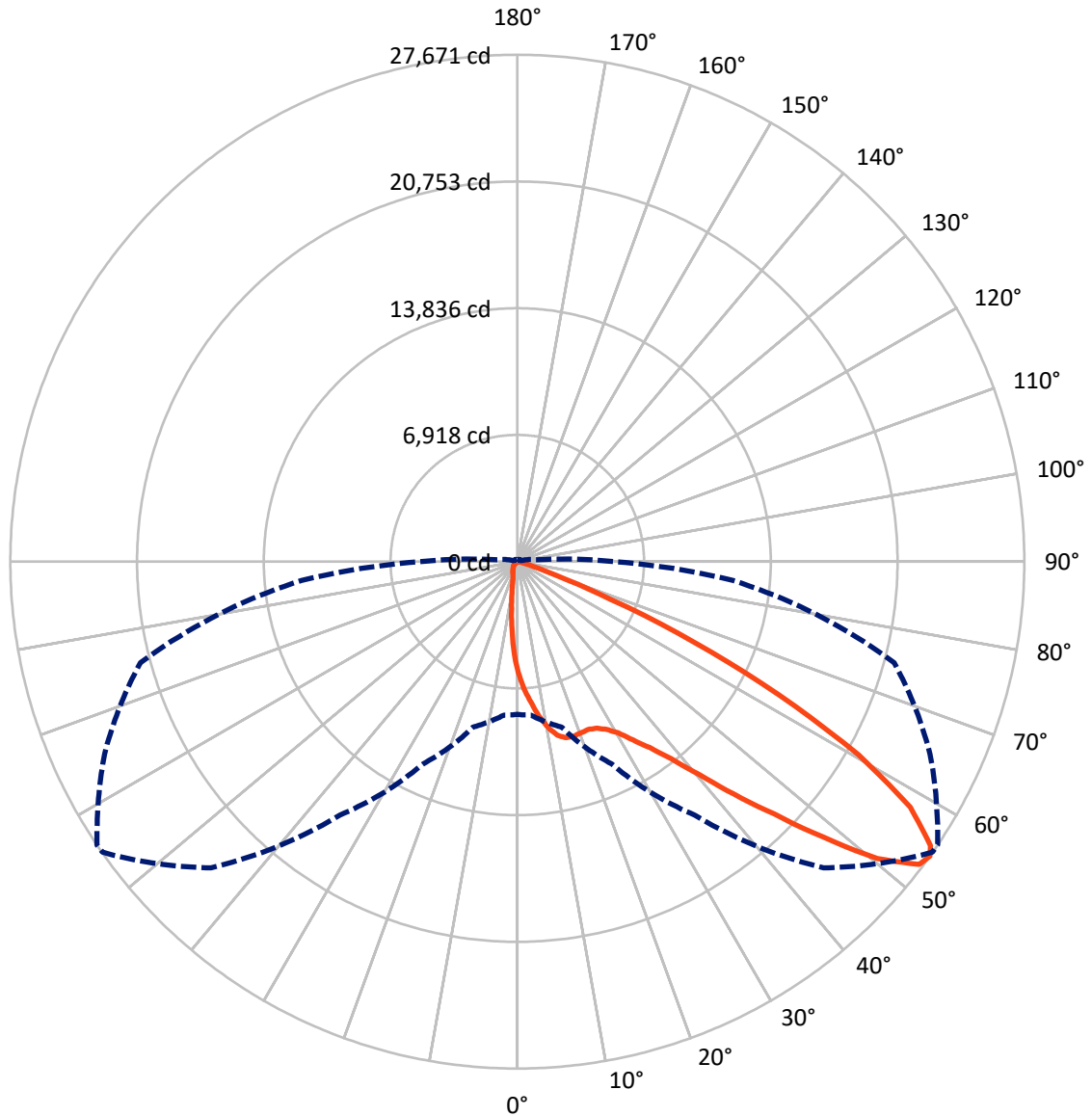
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	1284.1	0.0	1284.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25871.9	0.0	25871.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	27156.0	0.0	27156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.1	2.0
10°-20°	1441.3	5.3
20°-30°	2496.1	9.2
30°-40°	4308.7	15.9
40°-50°	7333.6	27.0
50°-60°	7257.5	26.7
60°-70°	3312.5	12.2
70°-80°	425.4	1.6
80°-90°	47.9	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°	27156.0	100.0
0°-180°	27156.0	100.0

Coefficient of Utilization



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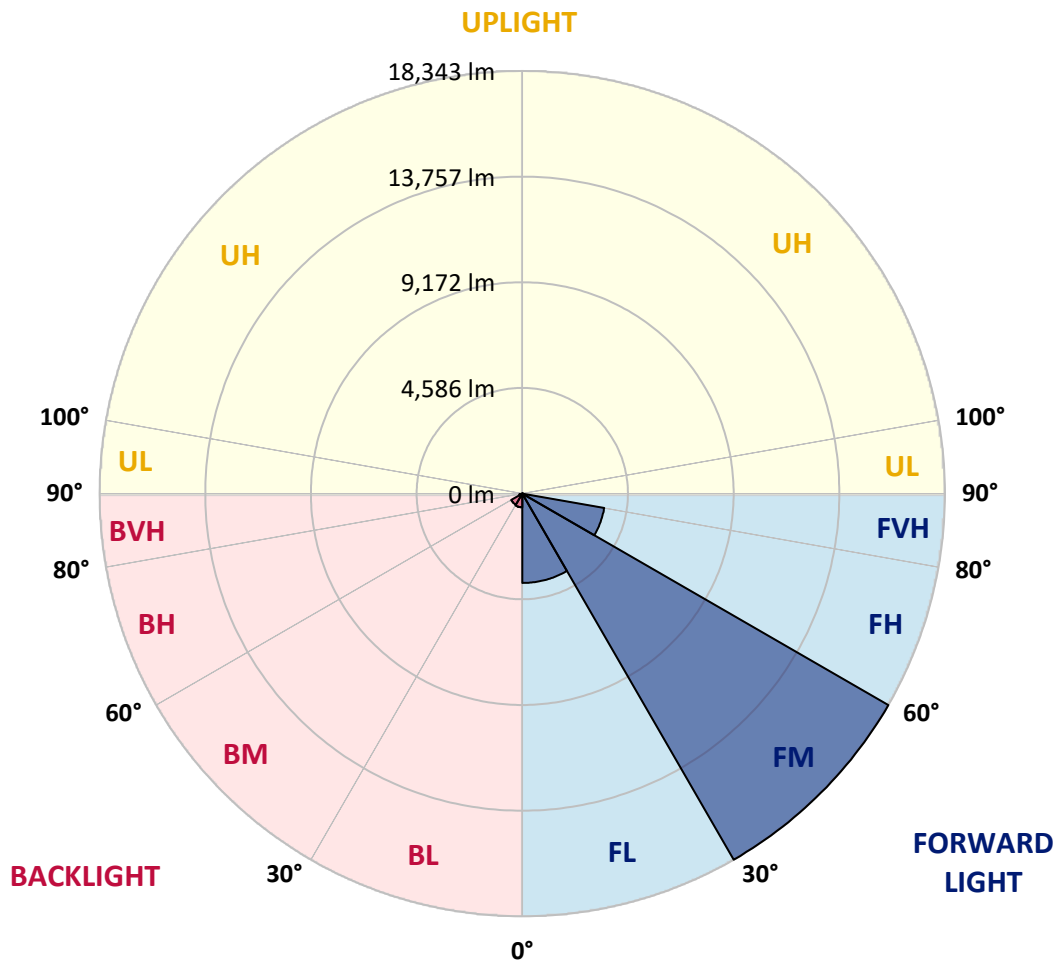
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3876.6	14.3			
FM (30°-60°)	18343.2	67.5			
FH (60°-80°)	3609.3	13.3			G2/5000
FVH (80°-90°)	42.8	0.2			G1/100
BL (0°-30°)	593.9	2.2	B2/1000		
BM (30°-60°)	556.5	2.0	B1/1000		
BH (60°-80°)	128.6	0.5	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3
2.5°	7667.6	7614.4	7541.1	7484.3	7350.6	7158.2	6954.9	6954.9	6758.8	6485.8	6207.3
5°	8843.8	8809.0	8737.5	8591.0	8440.7	8171.4	7762.8	7691.4	7341.4	6846.8	6326.4
7.5°	9322.0	9338.5	9342.2	9303.7	9232.2	8966.6	8561.7	8512.2	7953.4	7290.1	6482.2
10°	8864.0	8944.6	9023.4	9182.8	9408.1	9472.2	9243.2	9191.9	8642.3	7739.0	6650.7
12.5°	8182.4	8226.4	8270.3	8521.3	8973.9	9492.4	9732.4	9730.6	9265.2	8186.1	6865.1
15°	7865.4	7903.9	7907.6	8019.3	8411.4	9166.3	9941.3	9968.7	9873.5	8737.5	7095.9
17.5°	7931.4	7962.5	7936.9	7964.4	8169.6	8807.2	9917.4	10009.1	10366.3	9267.0	7304.8
20°	8362.0	8422.4	8323.5	8246.5	8308.8	8711.9	9836.8	9965.1	10714.4	9783.7	7495.3
22.5°	9135.1	9168.1	9043.5	8832.8	8722.9	8911.6	9814.8	9941.3	11011.2	10206.9	7605.3
25°	9994.4	9983.4	9846.0	9609.6	9378.8	9314.7	9959.6	10073.2	11256.8	10588.0	7638.2
27.5°	10853.7	10886.7	10655.8	10362.7	10086.0	9919.3	10283.9	10368.2	11533.4	11022.2	7678.6
30°	11852.2	11799.1	11571.9	11236.6	10919.6	10687.0	10806.0	10829.9	11914.5	11597.5	7784.8
32.5°	13151.2	13004.6	12750.0	12163.7	11936.5	11542.6	11571.9	11601.2	12378.0	12167.3	7913.1
35°	14913.7	14906.4	14408.1	13618.4	13065.1	12575.9	12447.7	12471.5	13079.7	13013.8	8197.1
37.5°	17035.4	17064.7	16496.7	15701.6	14682.9	13906.0	13642.2	13645.9	14146.1	14182.7	8629.4
40°	18763.1	18840.0	18501.1	17964.3	16958.4	15743.7	15300.3	15260.0	15644.8	15599.0	9246.9
42.5°	19506.9	19578.4	19704.8	19891.7	19338.4	18336.2	17290.0	17345.0	17462.3	17141.6	9939.4
45°	19142.3	19255.9	19752.5	20906.7	21427.0	21089.9	19842.2	19649.8	19153.3	18818.1	10635.7
47.5°	17623.5	17900.1	18730.1	20652.0	22473.2	23612.8	22722.4	22467.7	20846.2	20041.9	11079.0
50°	15126.3	15142.8	16298.8	18755.8	21930.9	25204.9	25663.0	25472.4	22423.7	20729.0	11302.6
52.5°	10965.4	11326.4	12385.4	15230.7	19582.1	24963.1	27537.3	27458.5	24050.7	21080.8	11625.0
54°	8336.3	8405.9	9347.6	12171.0	16883.3	23634.8	27652.7	27671.0	24858.7	21293.3	11815.6
55°	6833.9	6667.2	7656.6	10368.2	15042.0	22460.4	27275.3	27363.2	25221.4	21403.2	11956.6
57.5°	3239.2	3241.1	3997.8	5469.0	9420.9	17440.3	24968.6	25280.1	25261.7	21591.9	12390.9
60°	1639.8	1650.8	1817.5	2524.7	4653.7	11593.9	20644.7	21386.7	23317.8	21619.4	12533.8
62.5°	1146.9	1134.1	1106.6	1214.7	1958.6	5892.2	15369.9	16014.9	19811.1	20573.3	12079.4
65°	982.0	954.6	877.6	861.1	989.4	2347.0	9573.0	10624.7	15126.3	17814.0	10785.9
67.5°	839.1	828.1	758.5	716.4	699.9	1022.3	4939.5	5492.8	10338.8	12804.9	8169.6
70°	712.7	707.2	665.1	611.9	566.1	611.9	1832.2	2270.0	5762.1	6894.4	3854.9
72.5°	579.0	584.5	591.8	524.0	476.4	434.2	782.3	910.6	2411.1	2464.2	1348.5
75°	507.5	502.0	502.0	456.2	397.6	322.5	430.6	463.5	738.4	685.2	313.3
77.5°	357.3	344.4	403.1	375.6	331.6	229.0	245.5	260.2	306.0	262.0	146.6
80°	247.3	247.3	258.3	337.1	298.6	166.7	150.2	161.2	181.4	155.7	84.3
82.5°	139.2	142.9	168.6	179.6	174.1	111.8	98.9	100.8	120.9	106.3	53.1
85°	16.5	27.5	97.1	95.3	71.5	49.5	55.0	56.8	75.1	66.0	31.1
87.5°	1.8	3.7	20.2	25.7	18.3	20.2	20.2	20.2	25.7	29.3	22.0
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°	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3	6033.3
2.5°	6057.1	5917.9	5586.2	5201.5	4956.0	4556.6	4219.5	3975.8	3915.3	3798.1	3832.9
5°	6049.8	5760.3	5084.2	4369.7	3607.5	3039.5	2616.3	2282.9	2136.3	2039.2	1971.4
7.5°	6053.4	5600.9	4516.3	3378.5	2467.9	1910.9	1518.9	1315.5	1179.9	1123.1	1130.4
10°	6064.4	5421.3	3856.7	2502.7	1665.4	1234.9	994.9	897.8	852.0	844.6	842.8
12.5°	6090.1	5225.3	3226.4	1857.8	1165.2	897.8	806.1	773.2	758.5	758.5	753.0
15°	6117.6	5009.1	2702.4	1381.4	897.8	771.3	729.2	712.7	703.5	703.5	701.7
17.5°	6117.6	4759.9	2213.2	1071.8	773.2	709.0	676.1	654.1	646.8	646.8	644.9
20°	6079.1	4470.5	1779.0	862.9	701.7	650.4	617.4	593.6	584.5	580.8	579.0
22.5°	5945.3	4083.9	1416.3	742.0	643.1	599.1	557.0	529.5	522.2	518.5	520.3
25°	5707.2	3647.8	1121.3	652.2	590.0	536.8	500.2	480.0	472.7	472.7	474.5
27.5°	5461.7	3191.6	888.6	584.5	525.8	478.2	448.9	436.1	434.2	439.7	441.5
30°	5234.5	2733.6	720.0	529.5	469.0	428.7	408.6	404.9	404.9	406.7	408.6
32.5°	4981.6	2332.3	602.8	481.9	423.2	388.4	377.4	377.4	381.1	381.1	384.8
35°	4822.2	1987.9	529.5	436.1	388.4	359.1	351.8	353.6	359.1	366.4	370.1
37.5°	4736.1	1713.1	481.9	399.4	355.4	335.3	328.0	331.6	344.4	357.3	359.1
40°	4743.4	1506.0	443.4	368.3	329.8	307.8	302.3	313.3	326.1	338.9	340.8
42.5°	4824.1	1352.1	406.7	331.6	307.8	276.7	274.8	285.8	291.3	304.1	306.0
45°	4919.3	1240.4	368.3	293.1	267.5	240.0	241.8	251.0	258.3	278.5	282.2
47.5°	4948.6	1163.4	324.3	249.2	219.9	210.7	212.5	218.0	232.7	251.0	252.8
50°	4981.6	1115.8	282.2	210.7	186.9	185.0	186.9	190.5	199.7	207.0	205.2
52.5°	5122.7	1113.9	247.3	183.2	159.4	163.1	164.9	163.1	155.7	144.7	141.1
54°	5254.6	1119.4	230.9	170.4	146.6	152.1	150.2	141.1	122.8	111.8	106.3
55°	5360.9	1124.9	221.7	161.2	139.2	141.1	142.9	124.6	100.8	89.8	86.1
57.5°	5569.7	1112.1	199.7	141.1	122.8	115.4	113.6	82.4	55.0	47.6	44.0
60°	5465.3	1004.0	181.4	120.9	104.4	93.4	77.0	45.8	27.5	20.2	20.2
62.5°	5054.9	852.0	161.2	98.9	86.1	71.5	40.3	25.7	12.8	7.3	5.5
65°	4521.8	716.4	144.7	78.8	67.8	45.8	22.0	16.5	5.5	0.0	0.0
67.5°	3362.0	531.3	122.8	62.3	51.3	29.3	14.7	9.2	1.8	0.0	0.0
70°	1557.3	324.3	104.4	47.6	36.6	22.0	11.0	5.5	0.0	0.0	0.0
72.5°	447.0	203.4	86.1	34.8	25.7	18.3	9.2	3.7	1.8	0.0	0.0
75°	155.7	163.1	64.1	25.7	20.2	12.8	7.3	3.7	1.8	0.0	0.0
77.5°	93.4	131.9	40.3	22.0	16.5	11.0	7.3	3.7	1.8	1.8	0.0
80°	53.1	87.9	25.7	18.3	14.7	9.2	5.5	3.7	1.8	1.8	0.0
82.5°	29.3	42.1	20.2	16.5	12.8	9.2	5.5	3.7	1.8	1.8	1.8
85°	23.8	22.0	16.5	14.7	11.0	7.3	5.5	1.8	0.0	0.0	0.0
87.5°	18.3	14.7	14.7	14.7	11.0	7.3	5.5	1.8	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)