

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: P457066

Luminaire Tested: **GALN-SA8B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457066
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-SA8B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 27674 lumens
Efficiency: N/A
Efficacy: 85.2 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

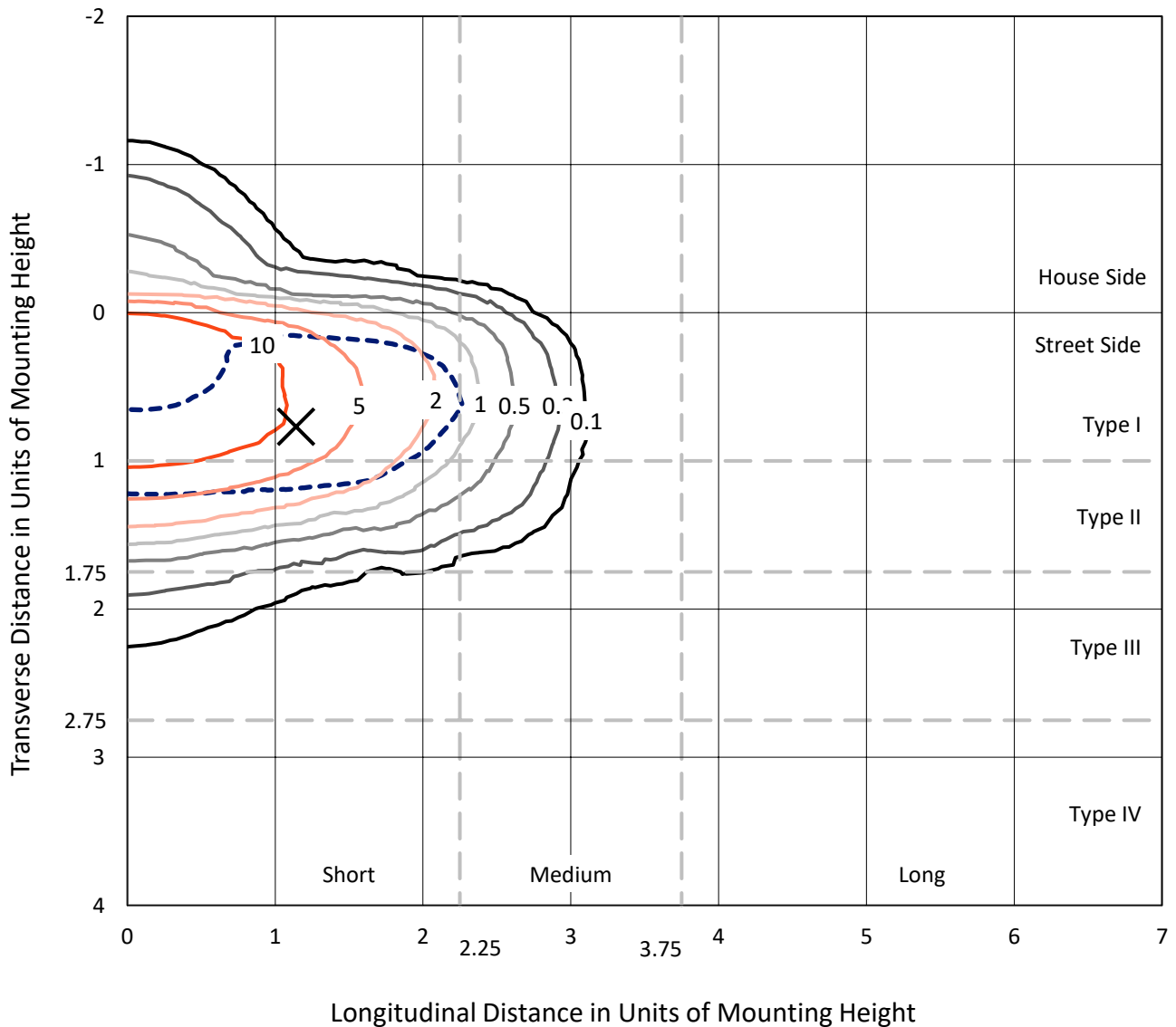
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

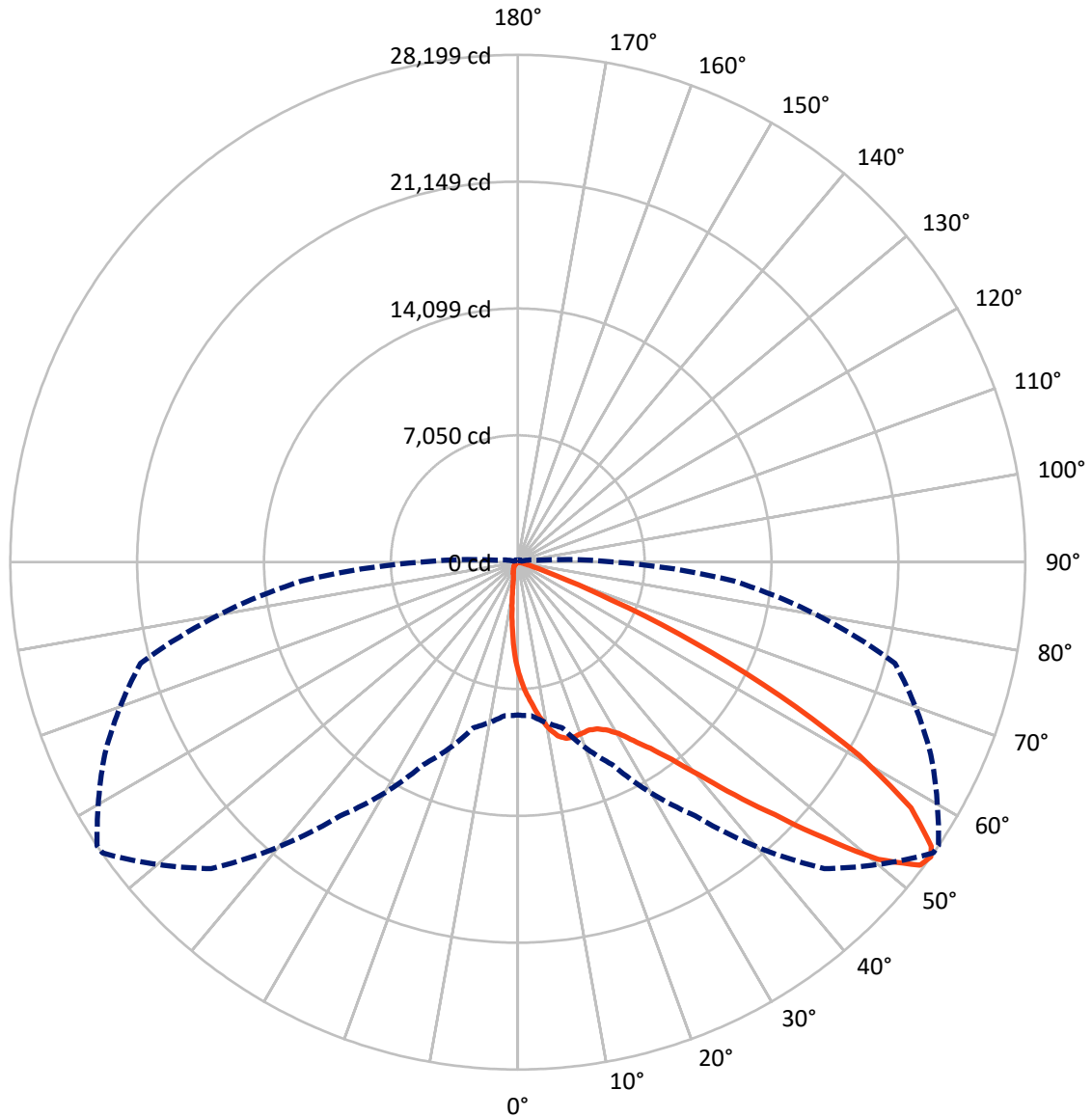
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	1308.6	0.0	1308.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	26365.4	0.0	26365.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	27674.0	0.0	27674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.3	2.0
10°-20°	1468.7	5.3
20°-30°	2543.7	9.2
30°-40°	4390.9	15.9
40°-50°	7473.4	27.0
50°-60°	7395.9	26.7
60°-70°	3375.6	12.2
70°-80°	433.5	1.6
80°-90°	48.8	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°	27674.0	100.0
0°-180°	27674.0	100.0

Coefficient of Utilization

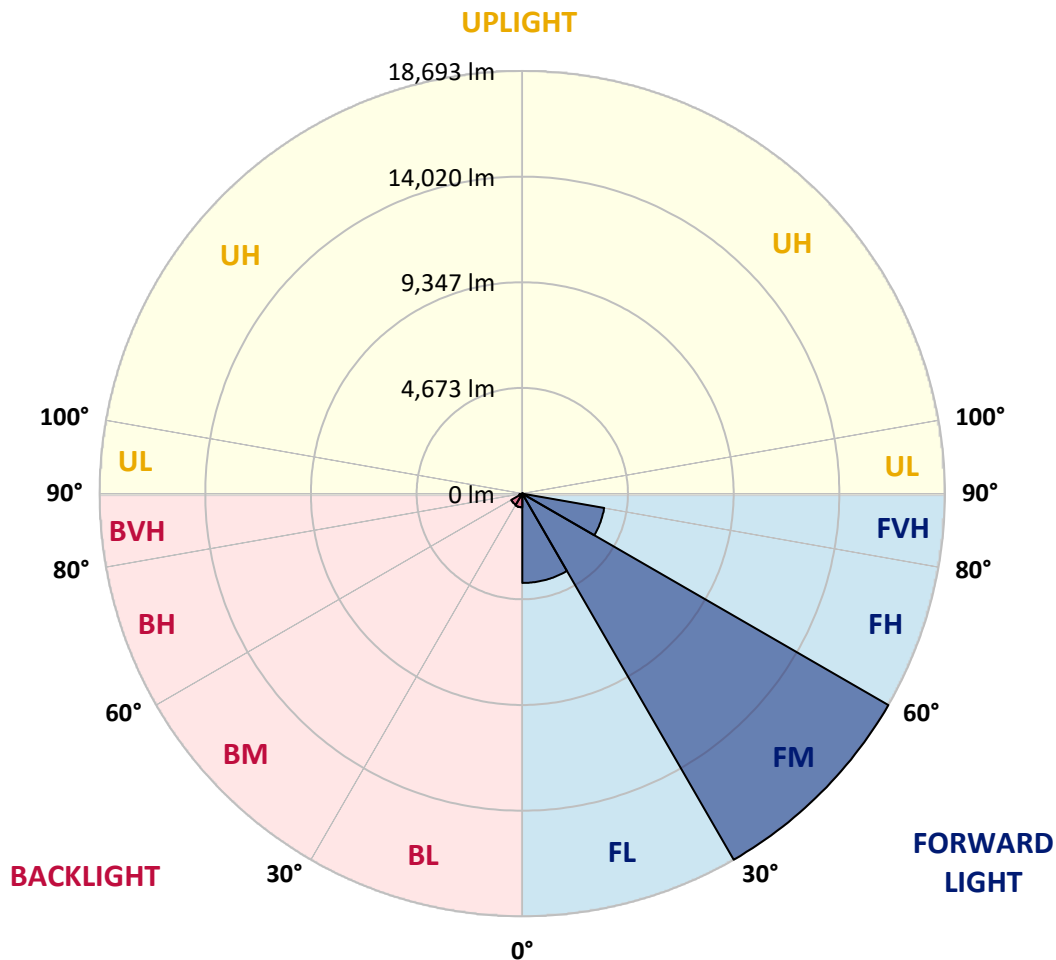


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3950.6	14.3			
FM (30°-60°)	18693.1	67.5			
FH (60°-80°)	3678.1	13.3			G2/5000
FVH (80°-90°)	43.6	0.2			G1/100
BL (0°-30°)	605.2	2.2	B2/1000		
BM (30°-60°)	567.1	2.0	B1/1000		
BH (60°-80°)	131.0	0.5	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4
2.5°	7813.8	7759.7	7685.0	7627.1	7490.8	7294.8	7087.5	7087.5	6887.7	6609.5	6325.7
5°	9012.5	8977.0	8904.2	8754.8	8601.7	8327.3	7910.9	7838.1	7481.5	6977.4	6447.1
7.5°	9499.8	9516.6	9520.4	9481.1	9408.3	9137.6	8725.0	8674.6	8105.1	7429.2	6605.8
10°	9033.0	9115.2	9195.5	9357.9	9587.6	9652.9	9419.5	9367.3	8807.1	7886.6	6777.6
12.5°	8338.5	8383.3	8428.1	8683.9	9145.1	9673.5	9918.0	9916.2	9441.9	8342.2	6996.0
15°	8015.5	8054.7	8058.4	8172.3	8571.9	9341.1	10130.9	10158.9	10061.8	8904.2	7231.3
17.5°	8082.7	8114.4	8088.3	8116.3	8325.4	8975.2	10106.6	10200.0	10564.1	9443.8	7444.1
20°	8521.5	8583.1	8482.2	8403.8	8467.3	8878.1	10024.5	10155.2	10918.8	9970.3	7638.3
22.5°	9309.4	9343.0	9216.0	9001.3	8889.3	9081.6	10002.1	10130.9	11221.3	10401.6	7750.3
25°	10185.0	10173.8	10033.8	9793.0	9557.7	9492.3	10149.6	10265.3	11471.5	10790.0	7783.9
27.5°	11060.7	11094.3	10859.1	10560.3	10278.4	10108.5	10480.0	10565.9	11753.4	11232.5	7825.0
30°	12078.3	12024.1	11792.6	11450.9	11127.9	10890.8	11012.2	11036.4	12141.8	11818.8	7933.3
32.5°	13402.1	13252.7	12993.2	12395.7	12164.2	11762.7	11792.6	11822.5	12614.1	12399.4	8064.0
35°	15198.2	15190.7	14682.9	13878.2	13314.3	12815.8	12685.1	12709.4	13329.2	13262.0	8353.4
37.5°	17360.3	17390.2	16811.4	16001.1	14963.0	14171.3	13902.4	13906.2	14415.9	14453.2	8794.1
40°	19121.0	19199.4	18854.0	18306.9	17281.9	16044.0	15592.2	15551.1	15943.2	15896.5	9423.3
42.5°	19879.0	19951.9	20080.7	20271.1	19707.3	18686.0	17619.8	17675.9	17795.4	17468.6	10129.0
45°	19507.5	19623.2	20129.2	21305.5	21835.8	21492.2	20220.7	20024.7	19518.7	19177.0	10838.5
47.5°	17959.7	18241.6	19087.4	21046.0	22901.9	24063.2	23155.8	22896.3	21243.9	20424.2	11290.4
50°	15414.8	15431.6	16609.7	19113.5	22349.2	25685.7	26152.5	25958.3	22851.5	21124.4	11518.2
52.5°	11174.6	11542.4	12621.6	15521.2	19955.6	25439.3	28062.5	27982.3	24509.4	21482.9	11846.8
54°	8495.3	8566.3	9526.0	12403.2	17205.3	24085.6	28180.2	28198.8	25332.8	21699.5	12040.9
55°	6964.3	6794.4	7802.6	10565.9	15328.9	22888.8	27795.5	27885.2	25702.5	21811.5	12184.7
57.5°	3301.0	3302.9	4074.0	5573.3	9600.6	17772.9	25444.9	25762.3	25743.6	22003.8	12627.2
60°	1671.1	1682.3	1852.2	2572.9	4742.4	11815.0	21038.5	21794.7	23762.6	22031.8	12772.8
62.5°	1168.8	1155.7	1127.7	1237.9	1995.9	6004.6	15663.1	16320.3	20189.0	20965.7	12309.8
65°	1000.8	972.8	894.3	877.5	1008.2	2391.8	9755.6	10827.3	15414.8	18153.8	10991.6
67.5°	855.1	843.9	773.0	730.0	713.2	1041.8	5033.7	5597.6	10536.1	13049.2	8325.4
70°	726.3	720.7	677.8	623.6	576.9	623.6	1867.1	2313.3	5872.0	7025.9	3928.4
72.5°	590.0	595.6	603.1	534.0	485.4	442.5	797.3	927.9	2457.1	2511.3	1374.2
75°	517.2	511.6	511.6	464.9	405.2	328.6	438.8	472.4	752.4	698.3	319.3
77.5°	364.1	351.0	410.8	382.8	337.9	233.4	250.2	265.1	311.8	267.0	149.4
80°	252.1	252.1	263.3	343.5	304.3	169.9	153.1	164.3	184.8	158.7	85.9
82.5°	141.9	145.6	171.8	183.0	177.4	113.9	100.8	102.7	123.2	108.3	54.1
85°	16.8	28.0	99.0	97.1	72.8	50.4	56.0	57.9	76.6	67.2	31.7
87.5°	1.9	3.7	20.5	26.1	18.7	20.5	20.5	20.5	26.1	29.9	22.4
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°	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4
2.5°	6172.6	6030.7	5692.8	5300.7	5050.5	4643.5	4299.9	4051.6	3990.0	3870.5	3906.0
5°	6165.2	5870.2	5181.2	4453.0	3676.3	3097.5	2666.2	2326.4	2177.0	2078.1	2009.0
7.5°	6168.9	5707.7	4602.4	3442.9	2515.0	1947.4	1547.8	1340.6	1202.4	1144.5	1152.0
10°	6180.1	5524.8	3930.2	2550.5	1697.2	1258.4	1013.8	914.9	868.2	860.7	858.9
12.5°	6206.2	5325.0	3288.0	1893.2	1187.5	914.9	821.5	787.9	773.0	773.0	767.4
15°	6234.3	5104.7	2754.0	1407.8	914.9	786.0	743.1	726.3	717.0	717.0	715.1
17.5°	6234.3	4850.7	2255.5	1092.3	787.9	722.6	689.0	666.6	659.1	659.1	657.2
20°	6195.0	4555.7	1813.0	879.4	715.1	662.8	629.2	604.9	595.6	591.9	590.0
22.5°	6058.7	4161.8	1443.3	756.2	655.4	610.5	567.6	539.6	532.1	528.4	530.3
25°	5816.0	3717.4	1142.7	664.7	601.2	547.1	509.7	489.2	481.7	481.7	483.6
27.5°	5565.8	3252.5	905.5	595.6	535.9	487.3	457.4	444.4	442.5	448.1	450.0
30°	5334.3	2785.7	733.8	539.6	478.0	436.9	416.4	412.6	412.6	414.5	416.4
32.5°	5076.7	2376.8	614.3	491.0	431.3	395.8	384.6	384.6	388.4	388.4	392.1
35°	4914.2	2025.8	539.6	444.4	395.8	366.0	358.5	360.4	366.0	373.4	377.2
37.5°	4826.5	1745.7	491.0	407.0	362.2	341.7	334.2	337.9	351.0	364.1	366.0
40°	4833.9	1534.8	451.8	375.3	336.1	313.7	308.1	319.3	332.3	345.4	347.3
42.5°	4916.1	1377.9	414.5	337.9	313.7	281.9	280.1	291.3	296.9	309.9	311.8
45°	5013.2	1264.0	375.3	298.7	272.6	244.6	246.5	255.8	263.3	283.8	287.5
47.5°	5043.0	1185.6	330.5	253.9	224.1	214.7	216.6	222.2	237.1	255.8	257.7
50°	5076.7	1137.1	287.5	214.7	190.4	188.6	190.4	194.2	203.5	211.0	209.1
52.5°	5220.4	1135.2	252.1	186.7	162.4	166.2	168.0	166.2	158.7	147.5	143.8
54°	5354.8	1140.8	235.3	173.6	149.4	155.0	153.1	143.8	125.1	113.9	108.3
55°	5463.1	1146.4	225.9	164.3	141.9	143.8	145.6	127.0	102.7	91.5	87.8
57.5°	5676.0	1133.3	203.5	143.8	125.1	117.6	115.8	84.0	56.0	48.5	44.8
60°	5569.6	1023.2	184.8	123.2	106.4	95.2	78.4	46.7	28.0	20.5	20.5
62.5°	5151.3	868.2	164.3	100.8	87.8	72.8	41.1	26.1	13.1	7.5	5.6
65°	4608.0	730.0	147.5	80.3	69.1	46.7	22.4	16.8	5.6	0.0	0.0
67.5°	3426.1	541.5	125.1	63.5	52.3	29.9	14.9	9.3	1.9	0.0	0.0
70°	1587.0	330.5	106.4	48.5	37.3	22.4	11.2	5.6	0.0	0.0	0.0
72.5°	455.6	207.2	87.8	35.5	26.1	18.7	9.3	3.7	1.9	0.0	0.0
75°	158.7	166.2	65.3	26.1	20.5	13.1	7.5	3.7	1.9	0.0	0.0
77.5°	95.2	134.4	41.1	22.4	16.8	11.2	7.5	3.7	1.9	1.9	0.0
80°	54.1	89.6	26.1	18.7	14.9	9.3	5.6	3.7	1.9	1.9	0.0
82.5°	29.9	42.9	20.5	16.8	13.1	9.3	5.6	3.7	1.9	1.9	1.9
85°	24.3	22.4	16.8	14.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
87.5°	18.7	14.9	14.9	14.9	11.2	7.5	5.6	1.9	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)