

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: P652489

Luminaire Tested: **GALN-SA7B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652489
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 27309 lumens
Efficiency: N/A
Efficacy: 95.5 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

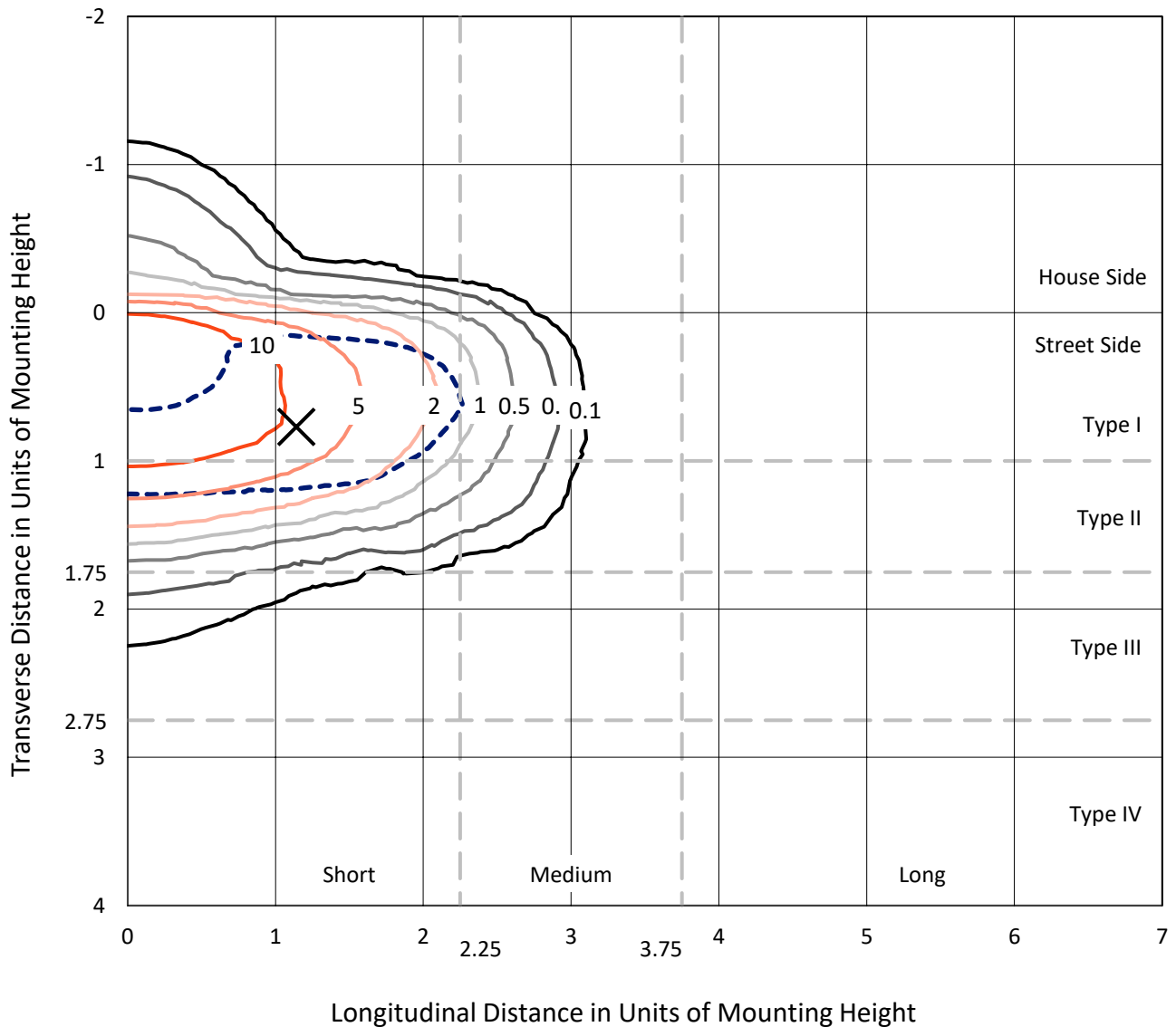
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

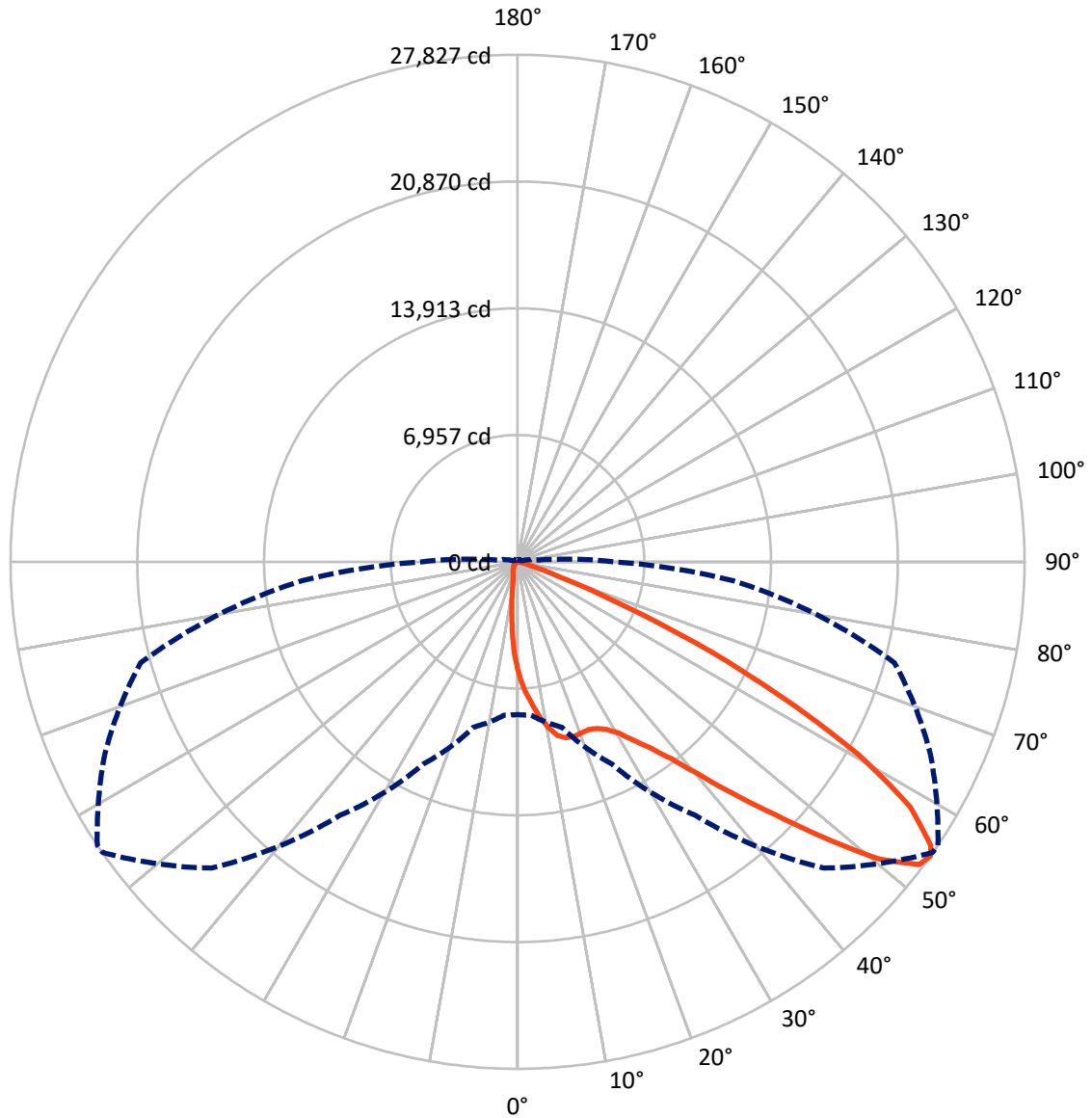
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	1291.4	0.0	1291.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	26017.6	0.0	26017.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	27309.0	0.0	27309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.1	2.0
10°-20°	1449.4	5.3
20°-30°	2510.2	9.2
30°-40°	4333.0	15.9
40°-50°	7374.9	27.0
50°-60°	7298.3	26.7
60°-70°	3331.1	12.2
70°-80°	427.8	1.6
80°-90°	48.2	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°	27309.0	100.0
0°-180°	27309.0	100.0

Coefficient of Utilization

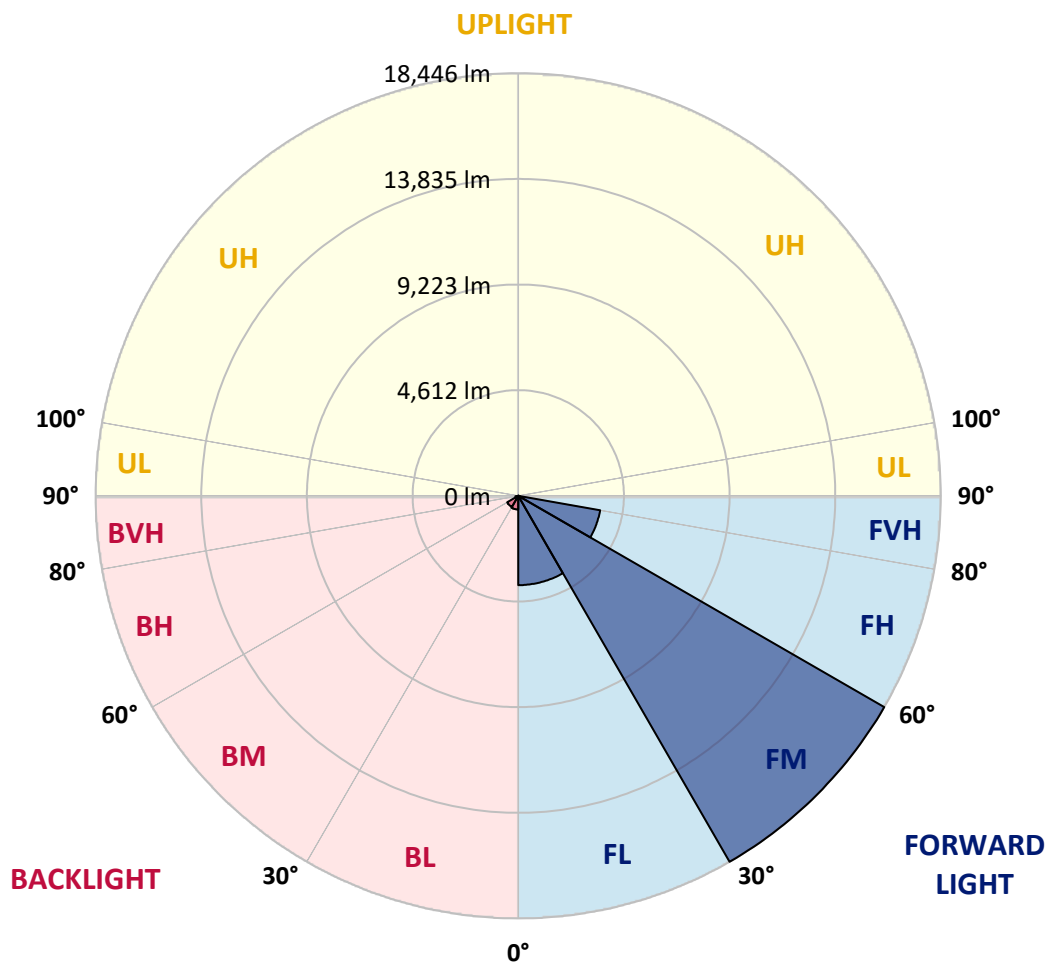


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3898.5	14.3			
FM (30°-60°)	18446.5	67.5			
FH (60°-80°)	3629.6	13.3			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	597.2	2.2	B2/1000		
BM (30°-60°)	559.7	2.0	B1/1000		
BH (60°-80°)	129.3	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°	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2
2.5°	7710.7	7657.3	7583.6	7526.5	7392.0	7198.5	6994.0	6994.0	6796.9	6522.4	6242.3
5°	8893.7	8858.6	8786.8	8639.3	8488.3	8217.4	7806.6	7734.7	7382.8	6885.4	6362.1
7.5°	9374.5	9391.1	9394.8	9356.0	9284.2	9017.0	8609.9	8560.1	7998.2	7331.2	6518.7
10°	8913.8	8994.9	9074.2	9234.5	9461.1	9525.6	9295.2	9243.7	8691.0	7782.6	6688.1
12.5°	8228.5	8272.7	8316.9	8569.4	9024.4	9545.9	9787.2	9785.4	9317.4	8232.1	6903.8
15°	7909.8	7948.5	7952.1	8064.5	8458.8	9217.9	9997.2	10024.9	9929.1	8786.8	7135.9
17.5°	7976.0	8007.4	7981.6	8009.3	8215.6	8856.7	9973.3	10065.4	10424.7	9319.2	7346.0
20°	8409.1	8469.9	8370.4	8292.9	8355.6	8760.9	9892.3	10021.2	10774.8	9838.8	7537.5
22.5°	9186.6	9219.7	9094.4	8882.6	8772.1	8961.8	9870.1	9997.2	11073.3	10264.4	7648.1
25°	10050.7	10039.6	9901.4	9663.8	9431.6	9367.1	10015.7	10129.9	11320.2	10647.6	7681.3
27.5°	10914.8	10948.0	10715.9	10421.0	10142.8	9975.2	10341.8	10426.5	11598.4	11084.3	7721.8
30°	11919.0	11865.5	11637.1	11299.9	10981.1	10747.1	10866.9	10890.9	11981.6	11662.8	7828.7
32.5°	13225.3	13077.9	12821.8	12232.2	12003.7	11607.6	11637.1	11666.5	12447.7	12235.9	7957.6
35°	14997.7	14990.3	14489.2	13695.1	13138.7	12646.7	12517.8	12541.7	13153.4	13087.1	8243.2
37.5°	17131.3	17160.8	16589.7	15790.0	14765.6	13984.4	13719.1	13722.8	14225.8	14262.6	8678.0
40°	18868.8	18946.1	18605.3	18065.4	17054.0	15832.4	15386.5	15346.0	15732.8	15686.8	9298.9
42.5°	19616.8	19688.7	19815.8	20003.7	19447.3	18439.4	17387.4	17442.7	17560.6	17238.1	9995.5
45°	19250.2	19364.4	19863.7	21024.5	21547.8	21208.7	19954.0	19760.6	19261.3	18924.0	10695.6
47.5°	17722.7	18000.9	18835.6	20768.3	22599.8	23745.8	22850.4	22594.2	20963.7	20154.8	11141.4
50°	15211.4	15228.1	16390.7	18861.4	22054.4	25346.9	25807.5	25615.9	22550.1	20845.8	11366.2
52.5°	11027.2	11390.2	12455.1	15316.5	19692.4	25103.7	27692.4	27613.1	24186.2	21199.5	11690.5
54°	8383.3	8453.2	9400.3	12239.6	16978.4	23767.9	27808.4	27826.8	24998.6	21413.2	11882.1
55°	6872.4	6704.8	7699.7	10426.5	15126.7	22586.9	27428.9	27517.4	25363.5	21523.8	12023.9
57.5°	3257.5	3259.3	4020.3	5499.8	9474.0	17538.5	25109.2	25422.4	25404.0	21713.5	12460.7
60°	1649.0	1660.0	1827.7	2538.9	4679.9	11659.2	20761.0	21507.2	23449.2	21741.2	12604.3
62.5°	1153.3	1140.5	1112.9	1221.6	1969.6	5925.4	15456.5	16105.1	19922.7	20689.1	12147.4
65°	987.6	959.9	882.5	866.0	994.9	2360.2	9626.9	10684.5	15211.4	17914.4	10846.6
67.5°	843.9	832.8	762.8	720.4	703.8	1028.1	4967.3	5523.8	10397.1	12877.1	8215.6
70°	716.7	711.2	668.8	615.4	569.4	615.4	1842.5	2282.8	5794.6	6933.2	3876.6
72.5°	582.2	587.8	595.1	527.0	479.0	436.6	786.8	915.7	2424.7	2478.1	1356.0
75°	510.4	504.9	504.9	458.8	399.8	324.3	432.9	466.2	742.5	689.1	315.0
77.5°	359.3	346.4	405.4	377.7	333.5	230.3	246.9	261.6	307.7	263.5	147.4
80°	248.8	248.8	259.8	339.0	300.3	167.7	151.0	162.1	182.4	156.6	84.8
82.5°	140.0	143.7	169.5	180.6	175.0	112.4	99.5	101.3	121.6	106.9	53.4
85°	16.6	27.7	97.6	95.8	71.8	49.8	55.3	57.1	75.5	66.4	31.3
87.5°	1.9	3.7	20.3	25.8	18.4	20.3	20.3	20.3	25.8	29.5	22.1
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°	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2	6067.2
2.5°	6091.2	5951.2	5617.7	5230.8	4983.9	4582.3	4243.2	3998.2	3937.4	3819.5	3854.5
5°	6083.9	5792.7	5112.9	4394.3	3627.8	3056.7	2631.1	2295.8	2148.3	2050.7	1982.5
7.5°	6087.5	5632.4	4541.7	3397.6	2481.8	1921.7	1527.4	1322.9	1186.6	1129.5	1136.8
10°	6098.6	5451.9	3878.4	2516.8	1674.8	1241.8	1000.5	902.8	856.7	849.4	847.6
12.5°	6124.4	5254.7	3244.6	1868.3	1171.8	902.8	810.7	777.5	762.8	762.8	757.2
15°	6152.0	5037.3	2717.6	1389.2	902.8	775.7	733.3	716.7	707.5	707.5	705.7
17.5°	6152.0	4786.7	2225.7	1077.8	777.5	713.0	679.9	657.7	650.4	650.4	648.6
20°	6113.3	4495.6	1789.1	867.8	705.7	654.0	620.9	596.9	587.8	584.1	582.2
22.5°	5978.8	4106.9	1424.2	746.2	646.7	602.5	560.1	532.4	525.1	521.4	523.3
25°	5739.3	3668.4	1127.6	655.9	593.2	539.8	503.0	482.7	475.3	475.3	477.2
27.5°	5492.4	3209.6	893.6	587.8	528.8	480.9	451.4	438.5	436.6	442.2	444.0
30°	5264.0	2749.0	724.1	532.4	471.6	431.2	410.9	407.2	407.2	409.1	410.9
32.5°	5009.7	2345.5	606.2	484.6	425.6	390.6	379.5	379.5	383.2	383.2	386.9
35°	4849.4	1999.1	532.4	438.5	390.6	361.1	353.7	355.6	361.1	368.5	372.1
37.5°	4762.8	1722.7	484.6	401.7	357.4	337.2	329.8	333.5	346.4	359.3	361.1
40°	4770.2	1514.5	445.9	370.4	331.6	309.6	304.0	315.0	328.0	340.9	342.7
42.5°	4851.2	1359.7	409.1	333.5	309.6	278.2	276.4	287.5	292.9	305.9	307.7
45°	4947.0	1247.4	370.4	294.8	269.0	241.4	243.2	252.4	259.8	280.1	283.8
47.5°	4976.5	1170.0	326.1	250.6	221.1	211.8	213.7	219.2	234.0	252.4	254.2
50°	5009.7	1122.1	283.8	211.8	188.0	186.1	188.0	191.6	200.8	208.2	206.4
52.5°	5151.5	1120.2	248.8	184.3	160.3	164.0	165.8	164.0	156.6	145.6	141.9
54°	5284.2	1125.8	232.1	171.3	147.4	152.9	151.0	141.9	123.5	112.4	106.9
55°	5391.1	1131.3	222.9	162.1	140.0	141.9	143.7	125.3	101.3	90.2	86.6
57.5°	5601.1	1118.4	200.8	141.9	123.5	116.1	114.2	82.9	55.3	47.9	44.2
60°	5496.1	1009.7	182.4	121.6	105.0	93.9	77.4	46.1	27.7	20.3	20.3
62.5°	5083.4	856.7	162.1	99.5	86.6	71.8	40.5	25.8	12.9	7.4	5.6
65°	4547.2	720.4	145.6	79.2	68.2	46.1	22.1	16.6	5.6	0.0	0.0
67.5°	3380.9	534.3	123.5	62.7	51.6	29.5	14.7	9.3	1.9	0.0	0.0
70°	1566.1	326.1	105.0	47.9	36.8	22.1	11.0	5.6	0.0	0.0	0.0
72.5°	449.6	204.5	86.6	35.0	25.8	18.4	9.3	3.7	1.9	0.0	0.0
75°	156.6	164.0	64.5	25.8	20.3	12.9	7.4	3.7	1.9	0.0	0.0
77.5°	93.9	132.6	40.5	22.1	16.6	11.0	7.4	3.7	1.9	1.9	0.0
80°	53.4	88.5	25.8	18.4	14.7	9.3	5.6	3.7	1.9	1.9	0.0
82.5°	29.5	42.4	20.3	16.6	12.9	9.3	5.6	3.7	1.9	1.9	1.9
85°	24.0	22.1	16.6	14.7	11.0	7.4	5.6	1.9	0.0	0.0	0.0
87.5°	18.4	14.7	14.7	14.7	11.0	7.4	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)