

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: P646934

Luminaire Tested: **GALN-SA5C-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646934  
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-SA5C-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 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: 22586.4 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

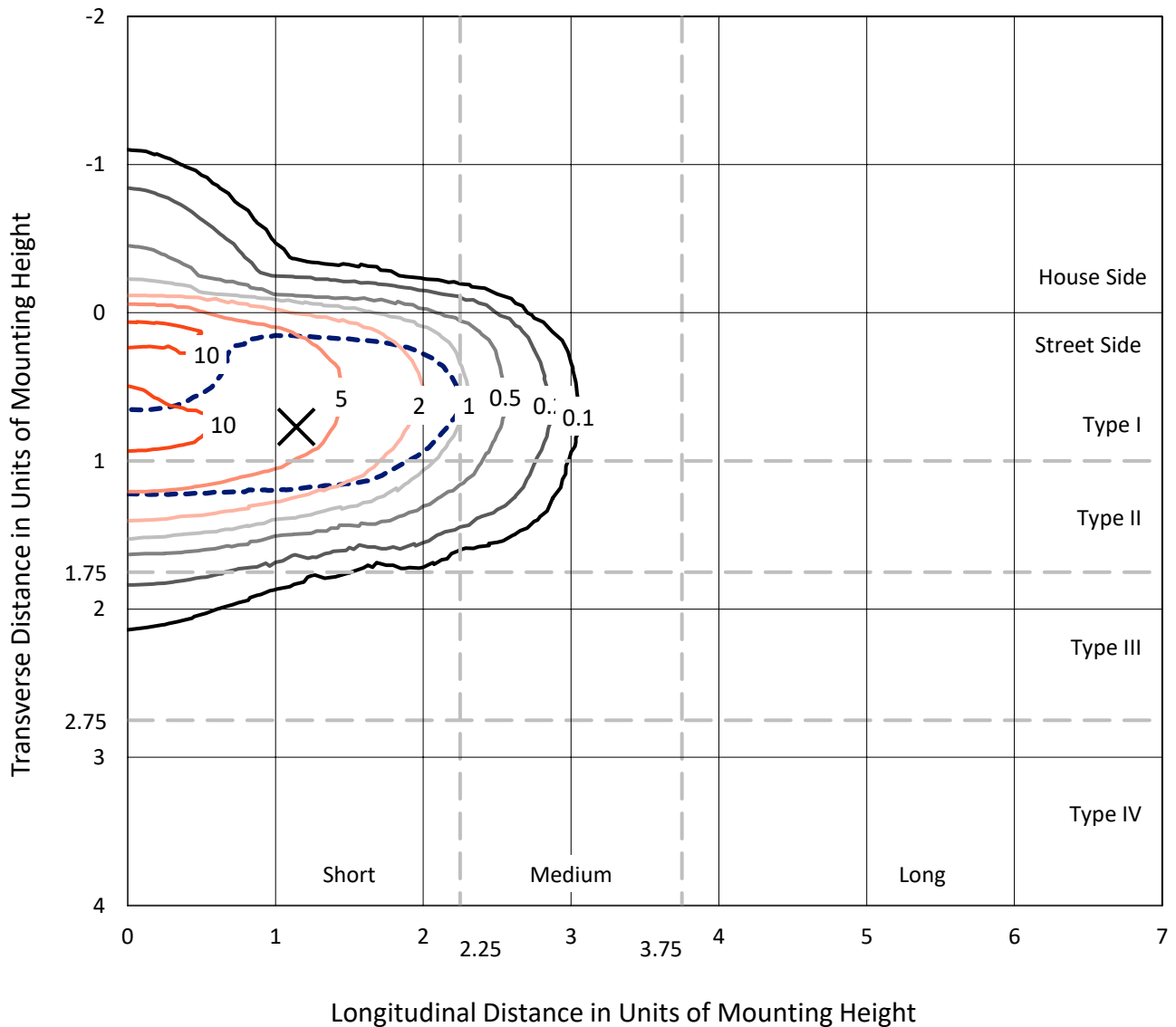
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

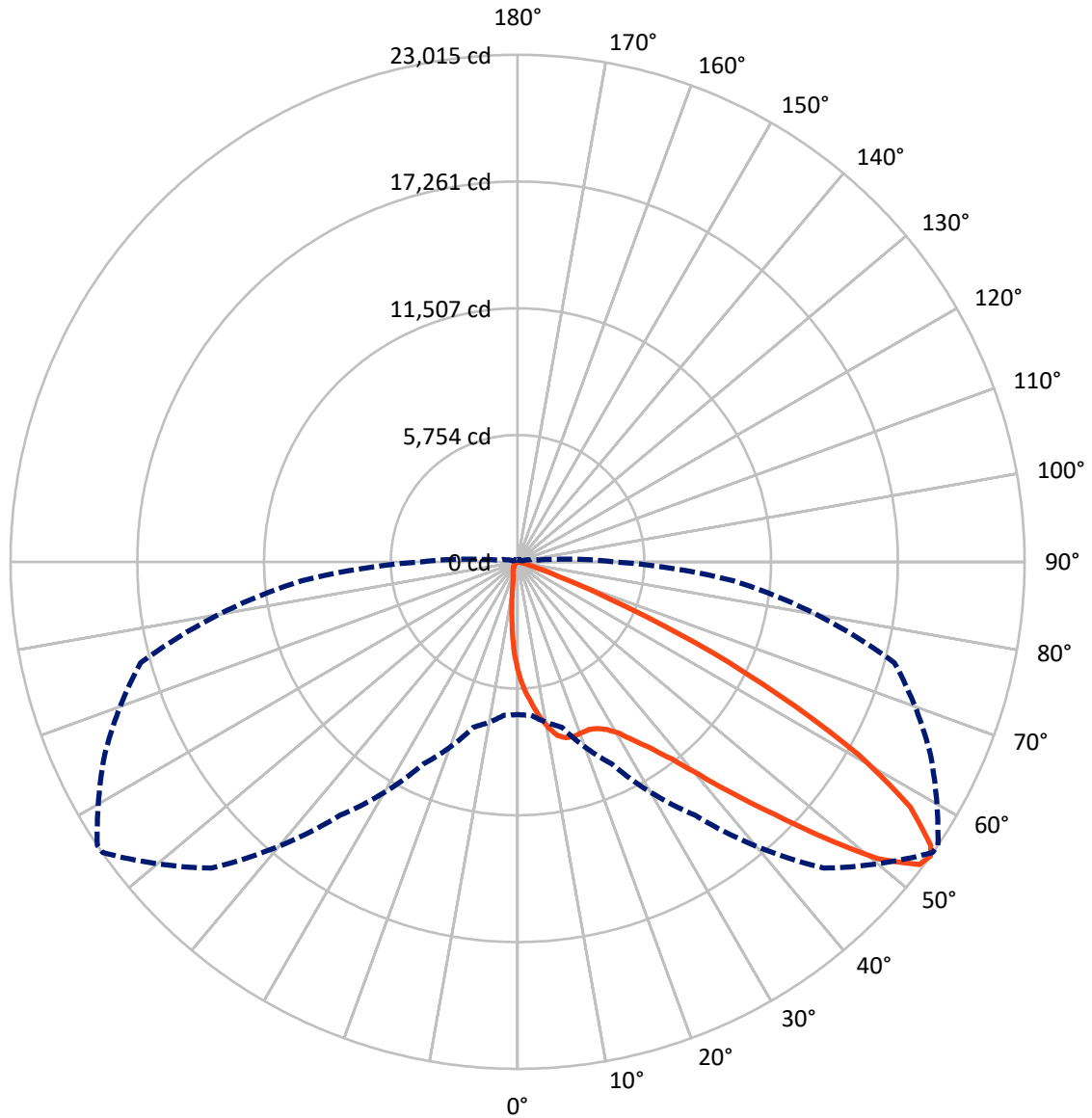
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	1068.1	0.0	1068.1
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	21518.4	0.0	21518.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	22586.4	0.0	22586.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.4	2.0
10°-20°	1198.7	5.3
20°-30°	2076.1	9.2
30°-40°	3583.7	15.9
40°-50°	6099.5	27.0
50°-60°	6036.2	26.7
60°-70°	2755.1	12.2
70°-80°	353.8	1.6
80°-90°	39.9	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°	22586.4	100.0
0°-180°	22586.4	100.0

**Coefficient of Utilization**

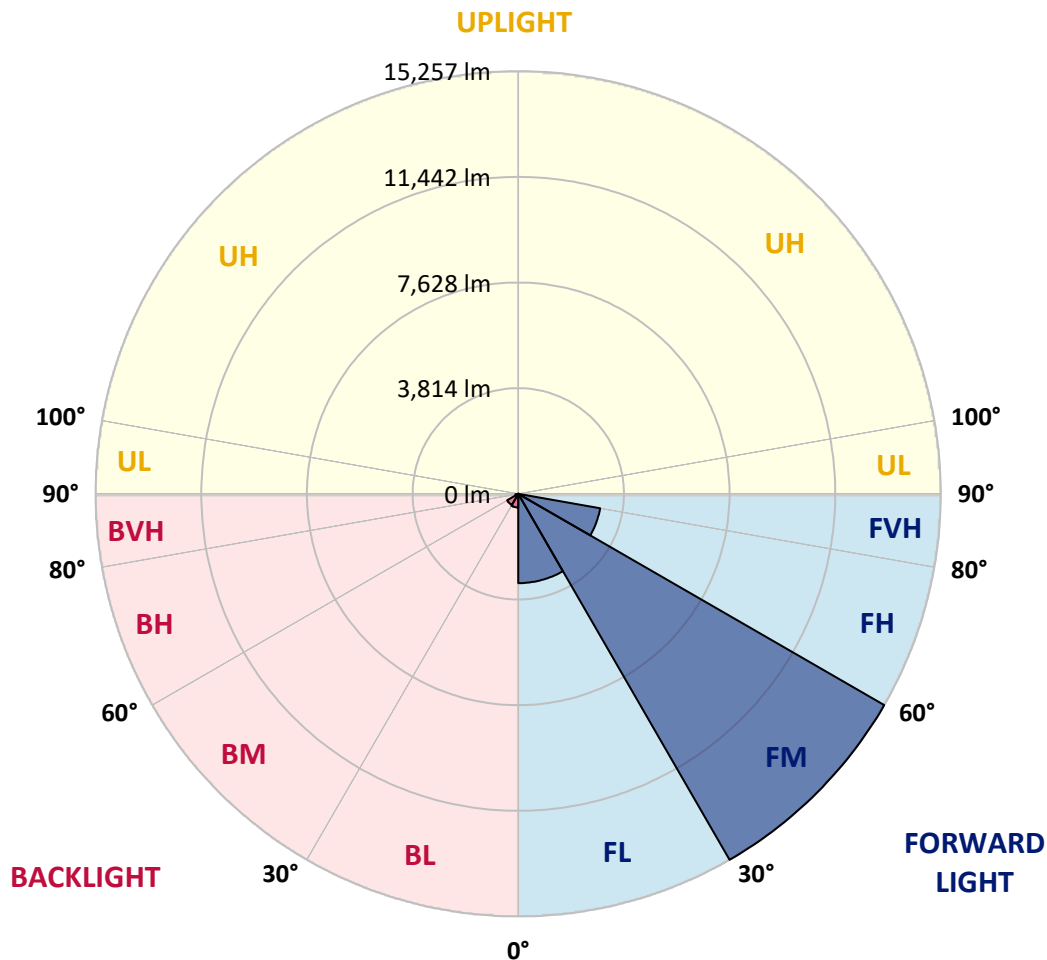


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3224.3	14.3			
FM (30°-60°)	15256.5	67.5			
FH (60°-80°)	3001.9	13.3			G2/5000
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	494.0	2.2	B1/500		
BM (30°-60°)	462.9	2.0	B1/1000		
BH (60°-80°)	106.9	0.5	B0/110		G0/110
BVH (80°-90°)	4.3	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°	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1
2.5°	6377.3	6333.1	6272.2	6224.9	6113.7	5953.7	5784.6	5784.6	5621.5	5394.5	5162.8
5°	7355.7	7326.7	7267.3	7145.3	7020.4	6796.4	6456.5	6397.1	6106.1	5694.7	5261.8
7.5°	7753.3	7767.1	7770.1	7738.2	7678.7	7457.8	7121.0	7079.8	6615.0	6063.4	5391.4
10°	7372.4	7439.4	7505.0	7637.5	7825.0	7878.3	7687.8	7645.2	7188.0	6436.7	5531.6
12.5°	6805.5	6842.1	6878.7	7087.5	7463.9	7895.1	8094.7	8093.2	7706.1	6808.6	5709.9
15°	6541.9	6573.9	6577.0	6669.9	6996.0	7623.8	8268.4	8291.3	8212.0	7267.3	5901.9
17.5°	6596.8	6622.7	6601.3	6624.2	6794.9	7325.2	8248.6	8324.9	8622.0	7707.6	6075.6
20°	6954.8	7005.2	6922.9	6858.8	6910.7	7246.0	8181.6	8288.2	8911.5	8137.4	6234.1
22.5°	7597.9	7625.4	7521.7	7346.5	7255.0	7412.0	8163.3	8268.4	9158.4	8489.4	6325.5
25°	8312.6	8303.5	8189.2	7992.6	7800.6	7747.3	8283.7	8378.2	9362.6	8806.3	6352.9
27.5°	9027.3	9054.8	8862.7	8619.0	8388.8	8250.2	8553.4	8623.5	9592.7	9167.5	6386.5
30°	9857.8	9813.7	9624.6	9345.8	9082.2	8888.6	8987.7	9007.5	9909.6	9646.0	6474.9
32.5°	10938.2	10816.3	10604.5	10116.9	9927.9	9600.3	9624.6	9649.1	10295.2	10119.9	6581.5
35°	12404.2	12398.1	11983.6	11326.8	10866.6	10459.7	10353.1	10372.9	10878.8	10824.0	6817.7
37.5°	14168.8	14193.2	13720.8	13059.4	12212.1	11566.1	11346.6	11349.7	11765.7	11796.1	7177.4
40°	15605.8	15669.8	15387.9	14941.4	14104.8	13094.5	12725.7	12692.2	13012.2	12974.1	7690.9
42.5°	16224.5	16283.9	16389.1	16544.5	16084.3	15250.7	14380.6	14426.3	14523.9	14257.2	8266.9
45°	15921.2	16015.7	16428.7	17388.7	17821.5	17541.1	16503.4	16343.3	15930.4	15651.5	8845.9
47.5°	14658.0	14888.0	15578.3	17176.9	18691.6	19639.4	18898.9	18687.0	17338.4	16669.4	9214.7
50°	12580.9	12594.6	13556.2	15599.7	18240.5	20963.7	21344.7	21186.2	18650.4	17240.9	9400.6
52.5°	9120.3	9420.4	10301.2	12667.8	16286.9	20762.5	22903.5	22838.0	20003.6	17533.5	9668.9
54°	6933.5	6991.4	7774.7	10122.9	14042.3	19657.7	22999.5	23014.8	20675.7	17710.2	9827.4
55°	5684.0	5545.3	6368.2	8623.5	12510.9	18681.0	22685.6	22758.8	20977.4	17801.7	9944.6
57.5°	2694.1	2695.7	3325.1	4548.7	7835.6	14505.5	20767.1	21026.1	21010.9	17958.7	10305.8
60°	1363.8	1373.0	1511.7	2099.8	3870.6	9643.0	17170.8	17788.0	19394.1	17981.5	10424.7
62.5°	953.9	943.3	920.4	1010.3	1629.0	4900.7	12783.6	13320.0	16477.5	17111.4	10046.8
65°	816.7	794.0	729.9	716.2	822.9	1952.0	7962.2	8836.9	12580.9	14816.5	8970.9
67.5°	697.9	688.8	630.9	595.9	582.1	850.3	4108.3	4568.5	8599.1	10650.2	6794.9
70°	592.8	588.2	553.2	509.0	470.9	509.0	1523.9	1888.0	4792.5	5734.3	3206.2
72.5°	481.5	486.1	492.2	435.8	396.2	361.1	650.7	757.3	2005.4	2049.6	1121.6
75°	422.1	417.6	417.6	379.4	330.7	268.2	358.1	385.5	614.1	569.9	260.6
77.5°	297.1	286.5	335.3	312.4	275.9	190.5	204.2	216.4	254.5	217.9	121.9
80°	205.7	205.7	214.9	280.4	248.4	138.7	125.0	134.1	150.9	129.5	70.1
82.5°	115.8	118.9	140.2	149.3	144.8	92.9	82.3	83.8	100.5	88.4	44.2
85°	13.7	22.9	80.7	79.2	59.4	41.1	45.7	47.2	62.5	54.9	25.9
87.5°	1.5	3.1	16.8	21.3	15.3	16.8	16.8	16.8	21.3	24.4	18.3
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°	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1
2.5°	5037.9	4922.0	4646.2	4326.2	4122.0	3789.8	3509.4	3306.8	3256.5	3158.9	3187.9
5°	5031.8	4791.0	4228.7	3634.4	3000.5	2528.1	2176.0	1898.7	1776.8	1696.1	1639.7
7.5°	5034.8	4658.5	3756.3	2810.0	2052.6	1589.4	1263.3	1094.2	981.3	934.1	940.2
10°	5043.9	4509.1	3207.7	2081.6	1385.2	1027.1	827.5	746.7	708.6	702.5	700.9
12.5°	5065.3	4346.0	2683.5	1545.2	969.2	746.7	670.5	643.1	630.9	630.9	626.3
15°	5088.2	4166.2	2247.7	1149.0	746.7	641.5	606.5	592.8	585.1	585.1	583.6
17.5°	5088.2	3959.0	1840.8	891.4	643.1	589.8	562.3	544.0	537.9	537.9	536.4
20°	5056.1	3718.2	1479.6	717.7	583.6	541.0	513.6	493.8	486.1	483.0	481.5
22.5°	4944.9	3396.7	1177.9	617.2	534.9	498.3	463.2	440.4	434.3	431.3	432.8
25°	4746.8	3034.0	932.6	542.5	490.7	446.5	416.0	399.3	393.1	393.1	394.7
27.5°	4542.6	2654.5	739.1	486.1	437.4	397.8	373.3	362.7	361.1	365.7	367.2
30°	4353.6	2273.6	598.8	440.4	390.1	356.6	339.8	336.8	336.8	338.3	339.8
32.5°	4143.3	1939.9	501.4	400.7	352.0	323.1	313.9	313.9	317.0	317.0	320.0
35°	4010.8	1653.4	440.4	362.7	323.1	298.7	292.6	294.1	298.7	304.7	307.8
37.5°	3939.2	1424.8	400.7	332.2	295.7	278.8	272.8	275.9	286.5	297.1	298.7
40°	3945.2	1252.6	368.8	306.3	274.3	256.0	251.4	260.6	271.2	281.9	283.4
42.5°	4012.3	1124.6	338.3	275.9	256.0	230.1	228.6	237.7	242.3	253.0	254.5
45°	4091.6	1031.7	306.3	243.8	222.5	199.6	201.2	208.7	214.9	231.6	234.7
47.5°	4115.9	967.6	269.7	207.3	182.8	175.2	176.8	181.3	193.6	208.7	210.3
50°	4143.3	928.0	234.7	175.2	155.4	153.9	155.4	158.5	166.1	172.2	170.7
52.5°	4260.7	926.5	205.7	152.4	132.6	135.6	137.2	135.6	129.5	120.3	117.4
54°	4370.4	931.1	192.0	141.7	121.9	126.5	125.0	117.4	102.1	92.9	88.4
55°	4458.8	935.7	184.4	134.1	115.8	117.4	118.9	103.6	83.8	74.7	71.6
57.5°	4632.5	925.0	166.1	117.4	102.1	96.0	94.5	68.6	45.7	39.6	36.6
60°	4545.6	835.1	150.9	100.5	86.8	77.8	64.0	38.1	22.9	16.8	16.8
62.5°	4204.3	708.6	134.1	82.3	71.6	59.4	33.5	21.3	10.6	6.1	4.5
65°	3760.9	595.9	120.3	65.5	56.4	38.1	18.3	13.7	4.5	0.0	0.0
67.5°	2796.2	441.9	102.1	51.8	42.7	24.4	12.2	7.6	1.5	0.0	0.0
70°	1295.2	269.7	86.8	39.6	30.5	18.3	9.2	4.5	0.0	0.0	0.0
72.5°	371.8	169.1	71.6	29.0	21.3	15.3	7.6	3.1	1.5	0.0	0.0
75°	129.5	135.6	53.3	21.3	16.8	10.6	6.1	3.1	1.5	0.0	0.0
77.5°	77.8	109.7	33.5	18.3	13.7	9.2	6.1	3.1	1.5	1.5	0.0
80°	44.2	73.1	21.3	15.3	12.2	7.6	4.5	3.1	1.5	1.5	0.0
82.5°	24.4	35.1	16.8	13.7	10.6	7.6	4.5	3.1	1.5	1.5	1.5
85°	19.8	18.3	13.7	12.2	9.2	6.1	4.5	1.5	0.0	0.0	0.0
87.5°	15.3	12.2	12.2	12.2	9.2	6.1	4.5	1.5	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)