

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: P456241

Luminaire Tested: **GALN-SA7C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32788 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

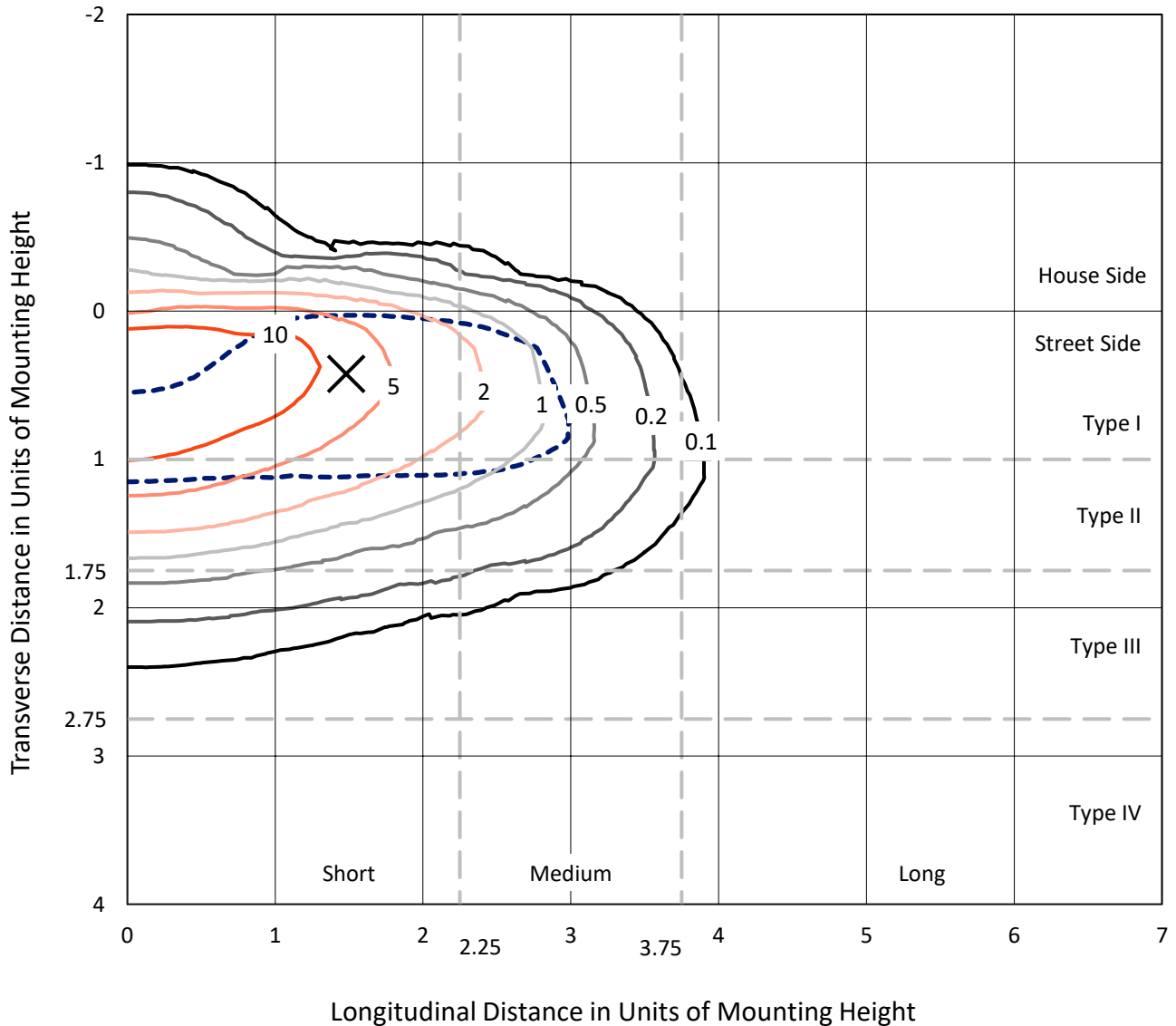
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

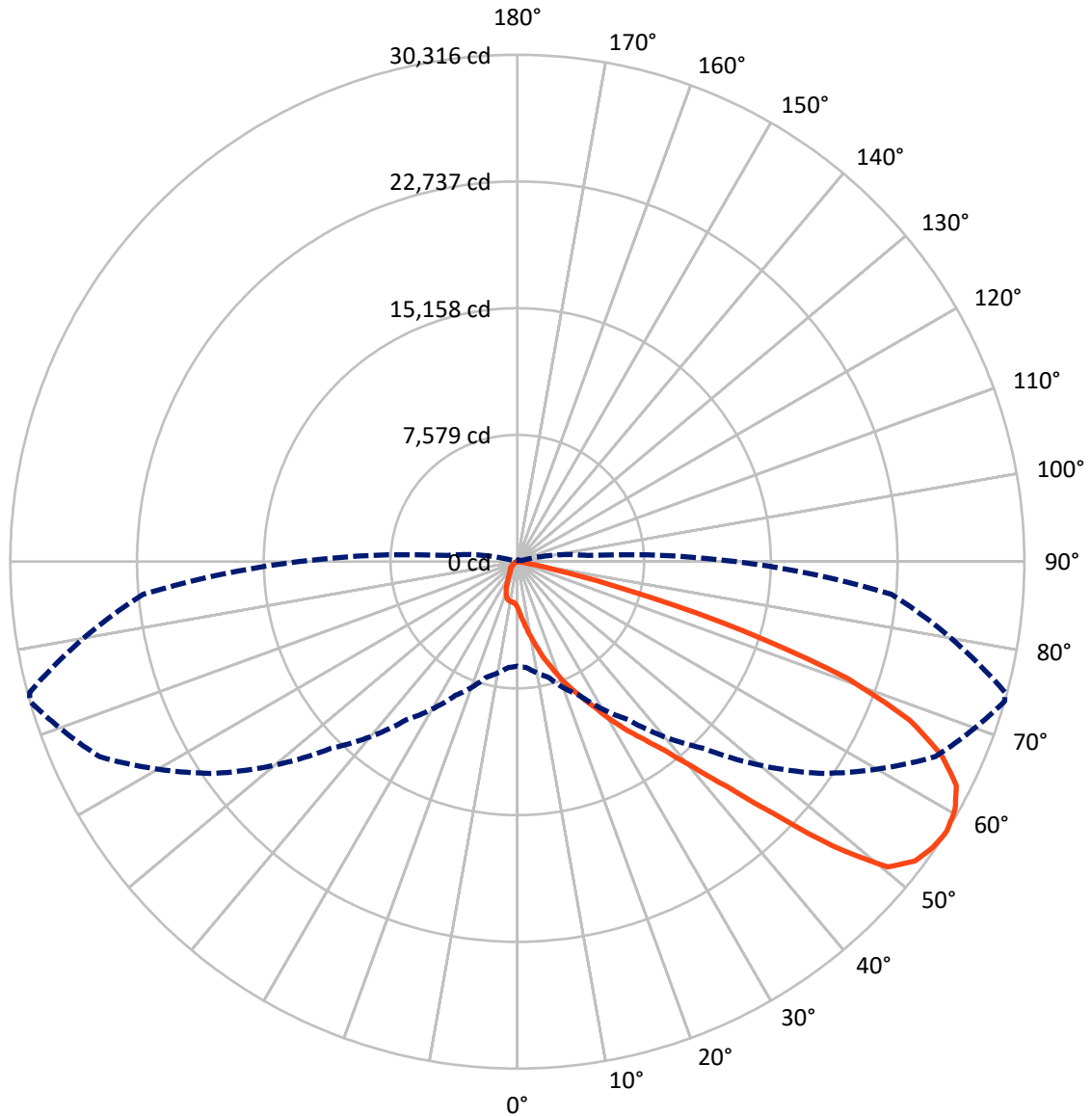
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.1	0.0	1891.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	30896.9	0.0	30896.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	32788.0	0.0	32788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	1.0
10°-20°	1306.4	4.0
20°-30°	2795.4	8.5
30°-40°	5137.9	15.7
40°-50°	7876.5	24.0
50°-60°	8332.3	25.4
60°-70°	5441.2	16.6
70°-80°	1486.7	4.5
80°-90°	80.0	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°	32788.0	100.0
0°-180°	32788.0	100.0

Coefficient of Utilization



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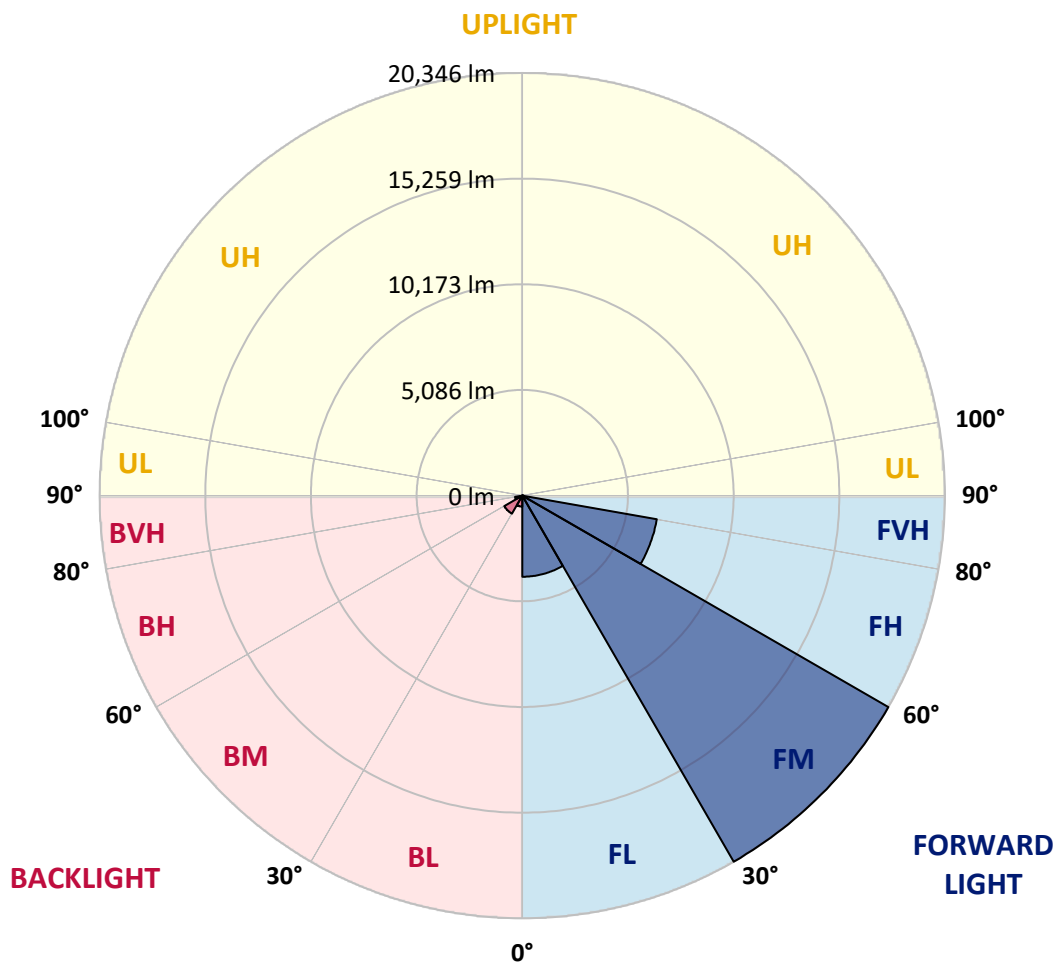
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3905.0	11.9			
FM	(30°-60°)	20345.6	62.1			
FH	(60°-80°)	6572.9	20.0			G3/7500
FVH	(80°-90°)	73.4	0.2			G1/100
BL	(0°-30°)	528.3	1.6	B2/1000		
BM	(30°-60°)	1001.2	3.1	B2/2500		
BH	(60°-80°)	355.0	1.1	B1/500		G1/500
BVH	(80°-90°)	6.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0
2.5°	4018.2	3982.0	3909.5	3884.6	3778.2	3613.0	3468.1	3273.4	3119.5	3103.6	2918.0
5°	5381.0	5299.5	5265.5	5102.5	4846.7	4606.8	4194.8	3882.4	3522.4	3495.3	3121.7
7.5°	6694.0	6580.8	6546.8	6392.9	6094.1	5716.0	5181.8	4613.6	4043.1	3991.0	3395.7
10°	7644.7	7660.6	7599.5	7497.6	7255.4	6870.5	6211.8	5435.3	4622.6	4557.0	3703.5
12.5°	8326.1	8323.9	8335.2	8332.9	8203.9	7911.9	7219.2	6325.0	5261.0	5132.0	4056.7
15°	8769.8	8776.6	8810.6	8928.3	8941.9	8760.8	8183.5	7176.1	6001.3	5840.5	4439.3
17.5°	9218.1	9265.6	9319.9	9430.9	9530.5	9458.0	9050.6	8063.5	6671.3	6551.3	4849.0
20°	9958.3	10024.0	9992.3	10060.2	10112.3	10119.0	9804.4	8883.0	7484.0	7282.5	5317.6
22.5°	11142.3	11140.0	11058.5	10936.3	10834.4	10829.9	10544.6	9725.2	8222.0	8027.3	5788.5
25°	12638.6	12645.4	12487.0	12138.3	11884.8	11574.7	11246.4	10463.1	9012.1	8772.1	6284.2
27.5°	14354.6	14311.6	14071.6	13591.7	13089.1	12559.4	12086.3	11321.1	9849.7	9650.4	6852.4
30°	15896.2	15880.3	15599.6	15013.3	14352.3	13820.3	13134.4	12396.4	10934.0	10689.5	7488.5
32.5°	17331.4	17354.1	16964.7	16358.0	15719.6	15106.1	14381.7	13424.2	11998.0	11651.6	8181.3
35°	18452.0	18474.6	18071.7	17566.9	16910.4	16401.0	15710.6	14519.8	13048.4	12756.3	8978.1
37.5°	19049.6	19079.0	18845.9	18465.6	18055.8	17800.0	17157.1	15930.1	14325.1	14148.6	9919.8
40°	19162.8	19196.8	19094.9	18993.0	18970.4	19153.8	18965.9	17591.8	16095.4	15819.2	11323.4
42.5°	18823.2	18868.5	18913.8	19140.2	19602.0	20274.3	20928.5	19846.5	18375.0	18003.8	13039.3
45°	17931.3	17926.8	18105.6	18691.9	19726.5	21161.7	22979.5	22669.4	21480.9	21039.5	15463.8
47.5°	16405.5	16382.9	16770.0	17605.3	19217.1	21324.7	24652.4	26096.7	25444.8	25037.3	18069.4
50°	14080.6	14191.6	14800.5	15966.4	17951.7	20831.2	25168.6	28344.7	28697.8	28265.4	20174.7
52.5°	11357.3	11352.8	12308.1	13890.5	16077.3	19744.6	24808.6	28752.1	29755.0	29424.5	21211.5
55°	8405.4	8464.2	9458.0	11054.0	13643.7	17761.5	23633.8	28333.3	30157.9	29924.8	21895.2
57°	6252.5	6356.7	7153.5	8842.3	11524.9	15798.8	22069.5	27584.0	30316.4	30189.6	22463.4
57.5°	5836.0	5840.5	6617.0	8151.8	10904.6	15045.0	21621.3	27271.6	30311.9	30241.7	22556.2
60°	3592.6	3705.8	4242.3	5510.0	7982.1	11742.2	18617.2	25476.5	30076.4	30178.3	22952.4
62.5°	2150.6	2198.1	2546.7	3320.9	5145.5	8570.6	15235.2	23178.7	29463.0	29773.1	22925.2
65°	1383.2	1394.5	1552.9	2010.2	3216.8	5793.0	11739.9	20143.0	27876.1	28446.5	22028.7
67.5°	1068.5	1086.6	1150.0	1319.8	1865.3	3608.4	8303.5	16903.6	25308.9	26044.7	19855.5
70°	948.5	957.6	980.2	1034.5	1233.8	2037.4	5165.9	13204.6	20987.4	21195.7	15538.5
72.5°	774.2	799.1	869.3	887.4	977.9	1272.2	2875.0	8862.7	14101.0	14153.1	8692.9
75°	599.9	604.4	708.6	760.6	824.0	876.1	1283.6	4468.7	6773.2	6411.0	3350.4
77.5°	448.2	468.6	516.1	581.8	672.3	627.1	575.0	1684.2	2103.0	2064.6	973.4
80°	287.5	298.8	359.9	436.9	522.9	409.7	323.7	493.5	461.8	475.4	233.2
82.5°	144.9	147.1	230.9	355.4	332.8	206.0	203.7	201.5	172.0	169.8	108.7
85°	15.8	34.0	149.4	203.7	149.4	67.9	95.1	92.8	90.6	92.8	63.4
87.5°	2.3	2.3	24.9	29.4	20.4	22.6	27.2	29.4	36.2	34.0	27.2
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°	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0	2746.0
2.5°	2827.4	2736.9	2569.4	2408.7	2288.7	2211.7	2112.1	2075.9	2023.8	2017.0	1992.1
5°	2949.7	2777.6	2485.6	2254.7	2069.1	1928.7	1806.5	1704.6	1623.1	1605.0	1614.1
7.5°	3124.0	2868.2	2460.7	2146.1	1888.0	1648.0	1453.3	1333.4	1247.3	1215.6	1220.2
10°	3320.9	2988.2	2456.2	2030.6	1636.7	1342.4	1129.6	1023.2	973.4	955.3	934.9
12.5°	3554.1	3126.3	2444.9	1851.8	1360.5	1070.8	919.1	855.7	808.2	794.6	794.6
15°	3816.7	3273.4	2390.5	1629.9	1104.7	885.1	783.3	733.5	717.6	704.0	704.0
17.5°	4090.6	3418.3	2277.4	1356.0	916.8	758.4	695.0	665.5	642.9	627.1	627.1
20°	4403.0	3560.9	2096.3	1113.8	774.2	676.9	627.1	593.1	575.0	561.4	556.9
22.5°	4699.6	3676.4	1865.3	914.6	674.6	609.0	563.7	527.5	509.3	502.6	502.6
25°	5007.5	3746.5	1586.9	756.1	615.7	552.4	502.6	473.1	457.3	452.8	450.5
27.5°	5306.3	3787.3	1342.4	661.0	561.4	500.3	452.8	430.1	414.3	409.7	412.0
30°	5668.5	3794.1	1104.7	593.1	513.9	450.5	407.5	387.1	378.0	373.5	371.3
32.5°	6035.2	3785.0	928.1	552.4	468.6	407.5	371.3	355.4	348.6	341.8	341.8
35°	6447.2	3737.5	790.1	511.6	425.6	371.3	339.6	326.0	316.9	310.1	307.9
37.5°	6958.8	3712.6	710.8	466.3	387.1	337.3	307.9	294.3	287.5	278.4	276.2
40°	7764.7	3823.5	685.9	425.6	348.6	305.6	278.4	262.6	253.5	244.5	242.2
42.5°	8769.8	4018.2	645.2	384.8	314.7	276.2	249.0	230.9	215.1	203.7	199.2
45°	10071.5	4274.0	581.8	341.8	285.2	244.5	219.6	196.9	176.6	167.5	165.3
47.5°	11436.6	4520.7	525.2	307.9	253.5	217.3	190.2	165.3	147.1	140.4	138.1
50°	12274.2	4570.6	489.0	269.4	221.8	187.9	160.7	138.1	126.8	120.0	120.0
52.5°	12656.7	4491.3	439.2	235.4	192.4	165.3	138.1	120.0	113.2	108.7	106.4
55°	12923.9	4369.1	373.5	203.7	165.3	140.4	122.2	108.7	99.6	95.1	92.8
57°	13080.1	4203.8	323.7	178.8	142.6	122.2	108.7	97.3	88.3	79.2	79.2
57.5°	13086.9	4140.4	310.1	176.6	135.8	117.7	106.4	95.1	83.8	74.7	72.4
60°	12885.4	3705.8	249.0	149.4	108.7	99.6	88.3	74.7	58.9	49.8	47.5
62.5°	12237.9	3153.4	206.0	126.8	88.3	77.0	63.4	56.6	40.7	29.4	29.4
65°	11257.7	2558.1	176.6	101.9	72.4	56.6	43.0	40.7	24.9	13.6	11.3
67.5°	9840.6	1992.1	149.4	83.8	61.1	40.7	29.4	27.2	13.6	4.5	0.0
70°	7497.6	1358.3	124.5	67.9	45.3	29.4	20.4	15.8	9.1	2.3	0.0
72.5°	4321.5	747.0	104.1	52.1	34.0	22.6	15.8	9.1	9.1	0.0	0.0
75°	1543.9	321.5	79.2	38.5	27.2	18.1	11.3	4.5	6.8	2.3	0.0
77.5°	491.2	172.0	52.1	29.4	22.6	13.6	9.1	4.5	4.5	2.3	0.0
80°	144.9	90.6	31.7	24.9	15.8	11.3	6.8	2.3	4.5	2.3	0.0
82.5°	79.2	45.3	24.9	18.1	15.8	9.1	6.8	2.3	2.3	2.3	0.0
85°	40.7	27.2	20.4	18.1	15.8	9.1	6.8	2.3	0.0	2.3	2.3
87.5°	22.6	20.4	20.4	18.1	15.8	11.3	6.8	2.3	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)