

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: P455342

Luminaire Tested: **GALN-SA6C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455342
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-SA6C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 30398 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

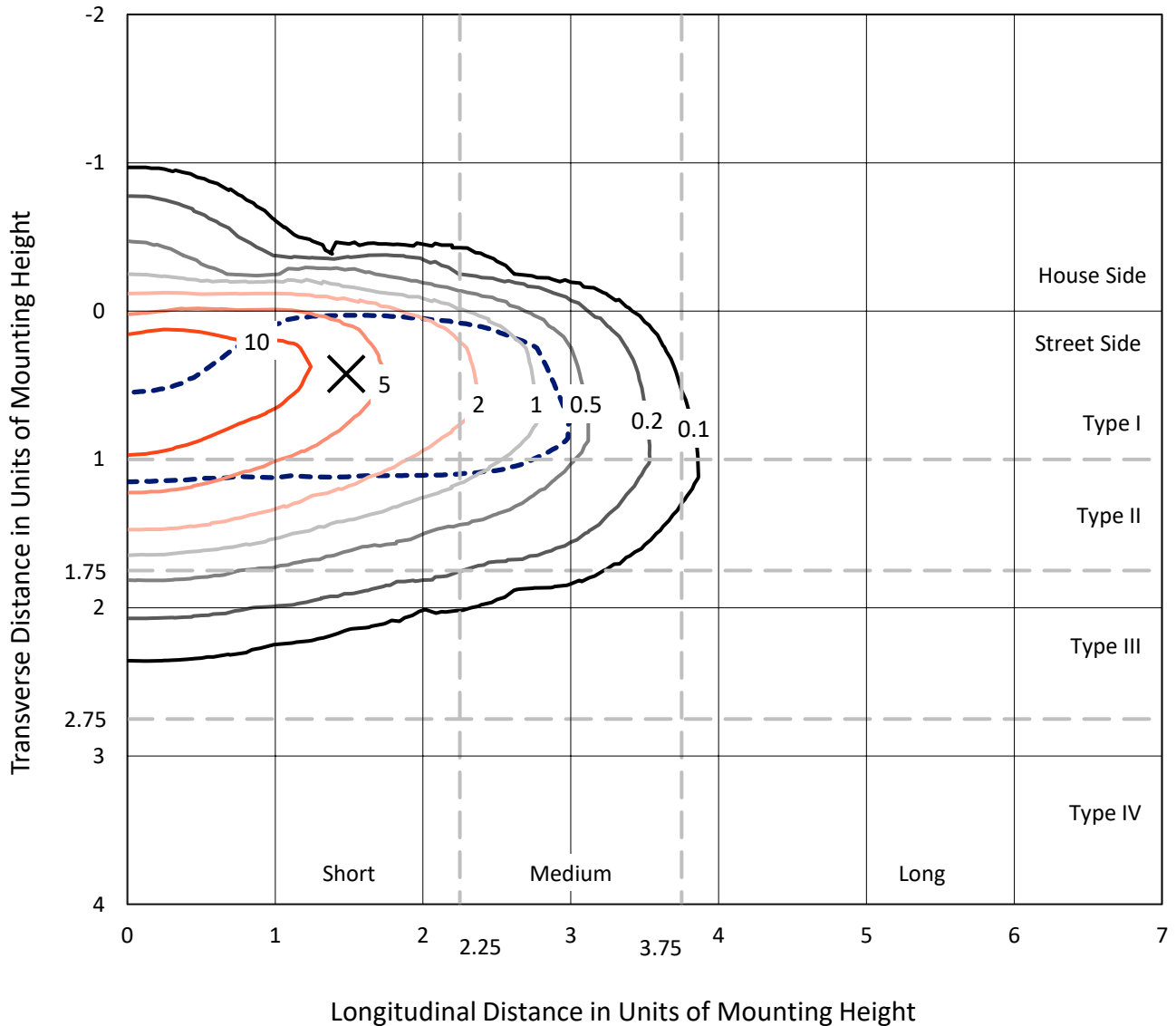
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

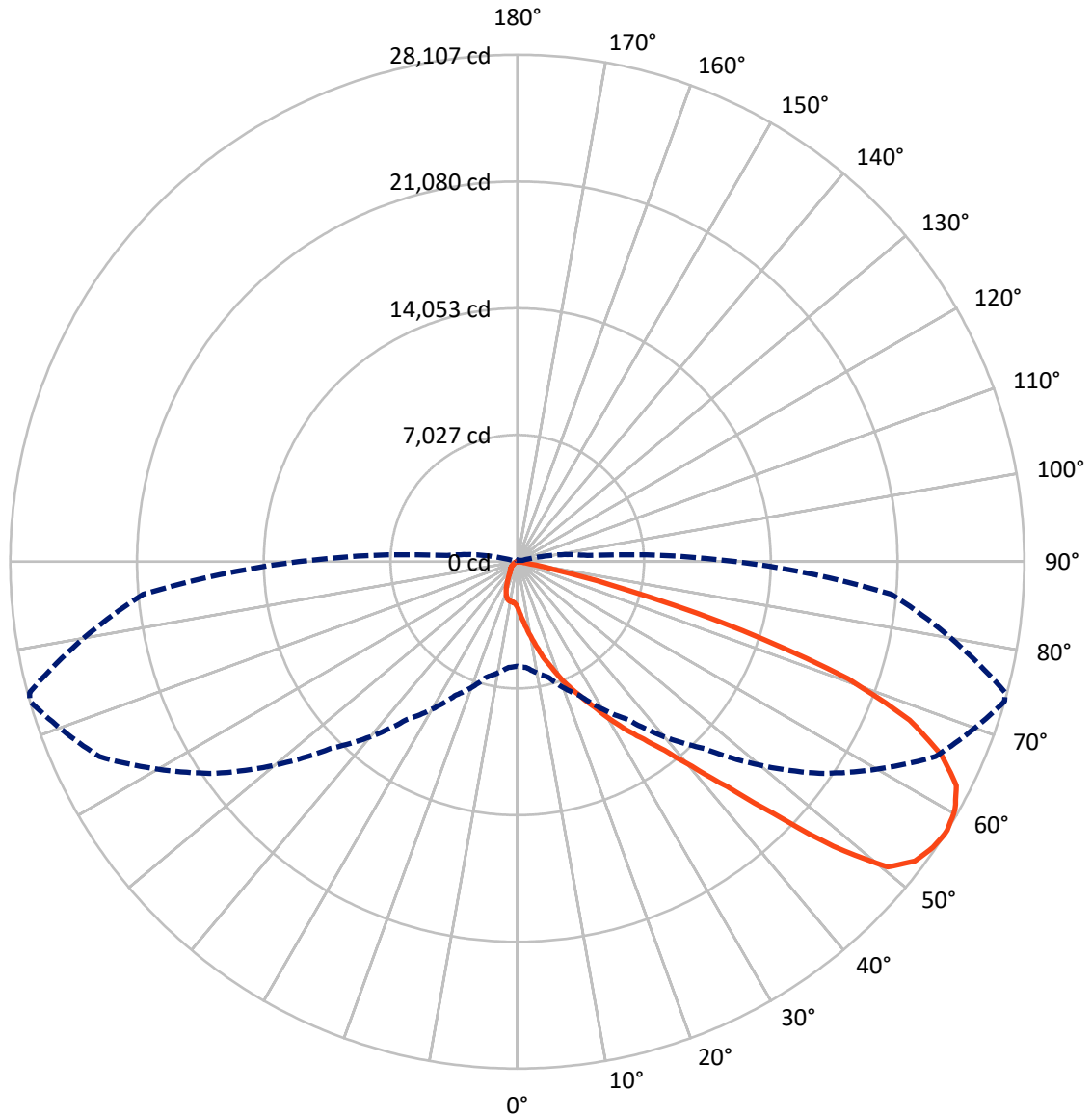
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	1753.3	0.0	1753.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	28644.7	0.0	28644.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	30398.0	0.0	30398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.0
10°-20°	1211.2	4.0
20°-30°	2591.6	8.5
30°-40°	4763.4	15.7
40°-50°	7302.4	24.0
50°-60°	7724.9	25.4
60°-70°	5044.6	16.6
70°-80°	1378.4	4.5
80°-90°	74.2	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°	30398.0	100.0
0°-180°	30398.0	100.0

Coefficient of Utilization



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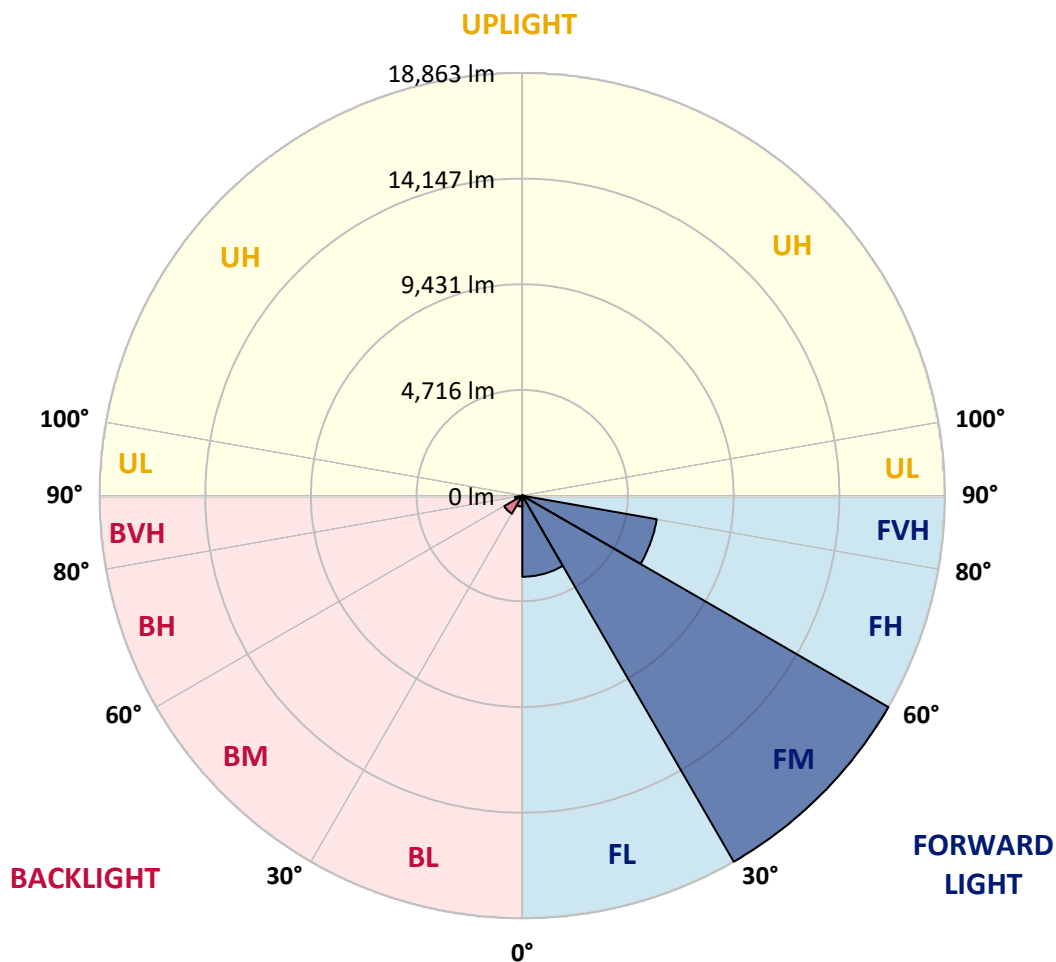
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3620.4	11.9			
FM (30°-60°)	18862.5	62.1			
FH (60°-80°)	6093.8	20.0			G3/7500
FVH (80°-90°)	68.1	0.2			G1/100
BL (0°-30°)	489.7	1.6	B1/500		
BM (30°-60°)	928.2	3.1	B1/1000		
BH (60°-80°)	329.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8
2.5°	3725.3	3691.7	3624.6	3601.5	3502.8	3349.6	3215.3	3034.8	2892.1	2877.4	2705.3
5°	4988.7	4913.2	4881.7	4730.6	4493.4	4271.0	3889.0	3599.4	3265.7	3240.5	2894.2
7.5°	6206.0	6101.1	6069.6	5926.9	5649.9	5299.4	4804.1	4277.3	3748.4	3700.1	3148.1
10°	7087.5	7102.2	7045.5	6951.1	6726.5	6369.7	5759.0	5039.1	4285.7	4224.8	3433.6
12.5°	7719.2	7717.1	7727.6	7725.5	7605.9	7335.2	6692.9	5863.9	4877.5	4757.9	3761.0
15°	8130.6	8136.9	8168.4	8277.5	8290.1	8122.2	7587.0	6653.1	5563.8	5414.8	4115.7
17.5°	8546.1	8590.2	8640.6	8743.4	8835.8	8768.6	8390.8	7475.8	6185.0	6073.8	4495.5
20°	9232.4	9293.3	9263.9	9326.9	9375.1	9381.4	9089.7	8235.5	6938.5	6751.7	4930.0
22.5°	10330.1	10328.0	10252.4	10139.1	10044.7	10040.5	9776.0	9016.3	7622.7	7442.2	5366.5
25°	11717.4	11723.7	11576.7	11253.5	11018.5	10730.9	10426.6	9700.5	8355.2	8132.7	5826.2
27.5°	13308.2	13268.3	13045.9	12600.9	12135.0	11643.9	11205.3	10495.9	9131.7	8947.0	6352.9
30°	14737.5	14722.8	14462.5	13919.0	13306.1	12812.9	12177.0	11492.8	10137.0	9910.3	6942.7
32.5°	16068.1	16089.1	15728.1	15165.6	14573.8	14005.0	13333.4	12445.6	11123.4	10802.3	7584.9
35°	17107.0	17128.0	16754.4	16286.4	15677.7	15205.5	14565.4	13461.4	12097.2	11826.5	8323.7
37.5°	17661.0	17688.3	17472.2	17119.6	16739.7	16502.5	15906.5	14769.0	13280.9	13117.2	9196.8
40°	17766.0	17797.5	17703.0	17608.6	17587.6	17757.6	17583.4	16309.4	14922.2	14666.1	10498.0
42.5°	17451.2	17493.1	17535.1	17745.0	18173.1	18796.5	19403.0	18399.8	17035.6	16691.4	12088.8
45°	16624.3	16620.1	16785.9	17329.4	18288.6	19619.2	21304.5	21017.0	19915.1	19505.9	14336.6
47.5°	15209.7	15188.7	15547.6	16322.0	17816.4	19770.3	22855.5	24194.5	23590.0	23212.3	16752.3
50°	13054.3	13157.1	13721.7	14802.5	16643.1	19312.8	23334.0	26278.5	26605.9	26205.1	18704.1
52.5°	10529.5	10525.3	11410.9	12878.0	14905.4	18305.4	23000.3	26656.3	27586.1	27279.7	19665.4
55°	7792.7	7847.3	8768.6	10248.2	12649.2	16466.9	21911.0	26268.0	27959.6	27743.5	20299.2
57°	5796.8	5893.3	6632.1	8197.7	10684.8	14647.2	20460.8	25573.4	28106.6	27989.0	20826.0
57.5°	5410.6	5414.8	6134.7	7557.6	10109.7	13948.3	20045.2	25283.7	28102.4	28037.3	20912.0
60°	3330.7	3435.7	3933.1	5108.4	7400.2	10886.3	17260.2	23619.4	27884.1	27978.5	21279.3
62.5°	1993.8	2037.9	2361.1	3078.9	4770.5	7945.9	14124.6	21489.2	27315.3	27602.9	21254.1
65°	1282.3	1292.8	1439.7	1863.7	2982.3	5370.7	10884.2	18674.7	25844.1	26373.0	20423.0
67.5°	990.6	1007.4	1066.2	1223.6	1729.4	3345.4	7698.2	15671.4	23464.1	24146.2	18408.2
70°	879.4	887.8	908.8	959.1	1143.8	1888.9	4789.4	12242.1	19457.6	19650.7	14405.9
72.5°	717.8	740.9	805.9	822.7	906.7	1179.5	2665.4	8216.6	13073.2	13121.4	8059.2
75°	556.2	560.4	656.9	705.2	763.9	812.2	1190.0	4142.9	6279.5	5943.7	3106.2
77.5°	415.6	434.4	478.5	539.4	623.3	581.4	533.1	1561.5	1949.7	1914.1	902.5
80°	266.5	277.0	333.7	405.1	484.8	379.9	300.1	457.5	428.1	440.7	216.2
82.5°	134.3	136.4	214.1	329.5	308.5	191.0	188.9	186.8	159.5	157.4	100.7
85°	14.7	31.5	138.5	188.9	138.5	63.0	88.1	86.0	84.0	86.0	58.8
87.5°	2.1	2.1	23.1	27.3	18.9	21.0	25.2	27.3	33.6	31.5	25.2
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°	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8	2545.8
2.5°	2621.3	2537.4	2382.1	2233.1	2121.8	2050.5	1958.1	1924.6	1876.3	1870.0	1846.9
5°	2734.7	2575.2	2304.4	2090.4	1918.3	1788.1	1674.8	1580.4	1504.8	1488.0	1496.4
7.5°	2896.3	2659.1	2281.3	1989.6	1750.4	1527.9	1347.4	1236.2	1156.4	1127.0	1131.2
10°	3078.9	2770.4	2277.2	1882.6	1517.4	1244.6	1047.3	948.6	902.5	885.7	866.8
12.5°	3295.0	2898.4	2266.7	1716.8	1261.4	992.7	852.1	793.3	749.3	736.7	736.7
15°	3538.5	3034.8	2216.3	1511.1	1024.2	820.6	726.2	680.0	665.3	652.7	652.7
17.5°	3792.5	3169.1	2111.4	1257.2	850.0	703.1	644.3	617.0	596.0	581.4	581.4
20°	4082.1	3301.3	1943.4	1032.6	717.8	627.5	581.4	549.9	533.1	520.5	516.3
22.5°	4357.0	3408.4	1729.4	847.9	625.4	564.6	522.6	489.0	472.2	465.9	465.9
25°	4642.5	3473.4	1471.2	701.0	570.9	512.1	465.9	438.6	423.9	419.8	417.7
27.5°	4919.5	3511.2	1244.6	612.8	520.5	463.8	419.8	398.8	384.1	379.9	382.0
30°	5255.3	3517.5	1024.2	549.9	476.4	417.7	377.8	358.9	350.5	346.3	344.2
32.5°	5595.3	3509.1	860.5	512.1	434.4	377.8	344.2	329.5	323.2	316.9	316.9
35°	5977.3	3465.0	732.5	474.3	394.6	344.2	314.8	302.2	293.8	287.5	285.4
37.5°	6451.6	3442.0	659.0	432.3	358.9	312.7	285.4	272.8	266.5	258.1	256.0
40°	7198.7	3544.8	635.9	394.6	323.2	283.3	258.1	243.5	235.1	226.7	224.6
42.5°	8130.6	3725.3	598.1	356.8	291.7	256.0	230.9	214.1	199.4	188.9	184.7
45°	9337.4	3962.5	539.4	316.9	264.4	226.7	203.6	182.6	163.7	155.3	153.2
47.5°	10602.9	4191.2	486.9	285.4	235.1	201.5	176.3	153.2	136.4	130.1	128.0
50°	11379.5	4237.4	453.3	249.8	205.7	174.2	149.0	128.0	117.5	111.2	111.2
52.5°	11734.2	4163.9	407.2	218.3	178.4	153.2	128.0	111.2	104.9	100.7	98.6
55°	11981.8	4050.6	346.3	188.9	153.2	130.1	113.3	100.7	92.3	88.1	86.0
57°	12126.6	3897.4	300.1	165.8	132.2	113.3	100.7	90.2	81.9	73.5	73.5
57.5°	12132.9	3838.6	287.5	163.7	125.9	109.1	98.6	88.1	77.7	69.3	67.2
60°	11946.1	3435.7	230.9	138.5	100.7	92.3	81.9	69.3	54.6	46.2	44.1
62.5°	11345.9	2923.6	191.0	117.5	81.9	71.4	58.8	52.5	37.8	27.3	27.3
65°	10437.1	2371.6	163.7	94.4	67.2	52.5	39.9	37.8	23.1	12.6	10.5
67.5°	9123.3	1846.9	138.5	77.7	56.7	37.8	27.3	25.2	12.6	4.2	0.0
70°	6951.1	1259.3	115.4	63.0	42.0	27.3	18.9	14.7	8.4	2.1	0.0
72.5°	4006.5	692.6	96.5	48.3	31.5	21.0	14.7	8.4	8.4	0.0	0.0
75°	1431.4	298.0	73.5	35.7	25.2	16.8	10.5	4.2	6.3	2.1	0.0
77.5°	455.4	159.5	48.3	27.3	21.0	12.6	8.4	4.2	4.2	2.1	0.0
80°	134.3	84.0	29.4	23.1	14.7	10.5	6.3	2.1	4.2	2.1	0.0
82.5°	73.5	42.0	23.1	16.8	14.7	8.4	6.3	2.1	2.1	2.1	0.0
85°	37.8	25.2	18.9	16.8	14.7	8.4	6.3	2.1	0.0	2.1	2.1
87.5°	21.0	18.9	18.9	16.8	14.7	10.5	6.3	2.1	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)