

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: P457662

Luminaire Tested: **GALN-SA9A-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457662
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-SA9A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 30229 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

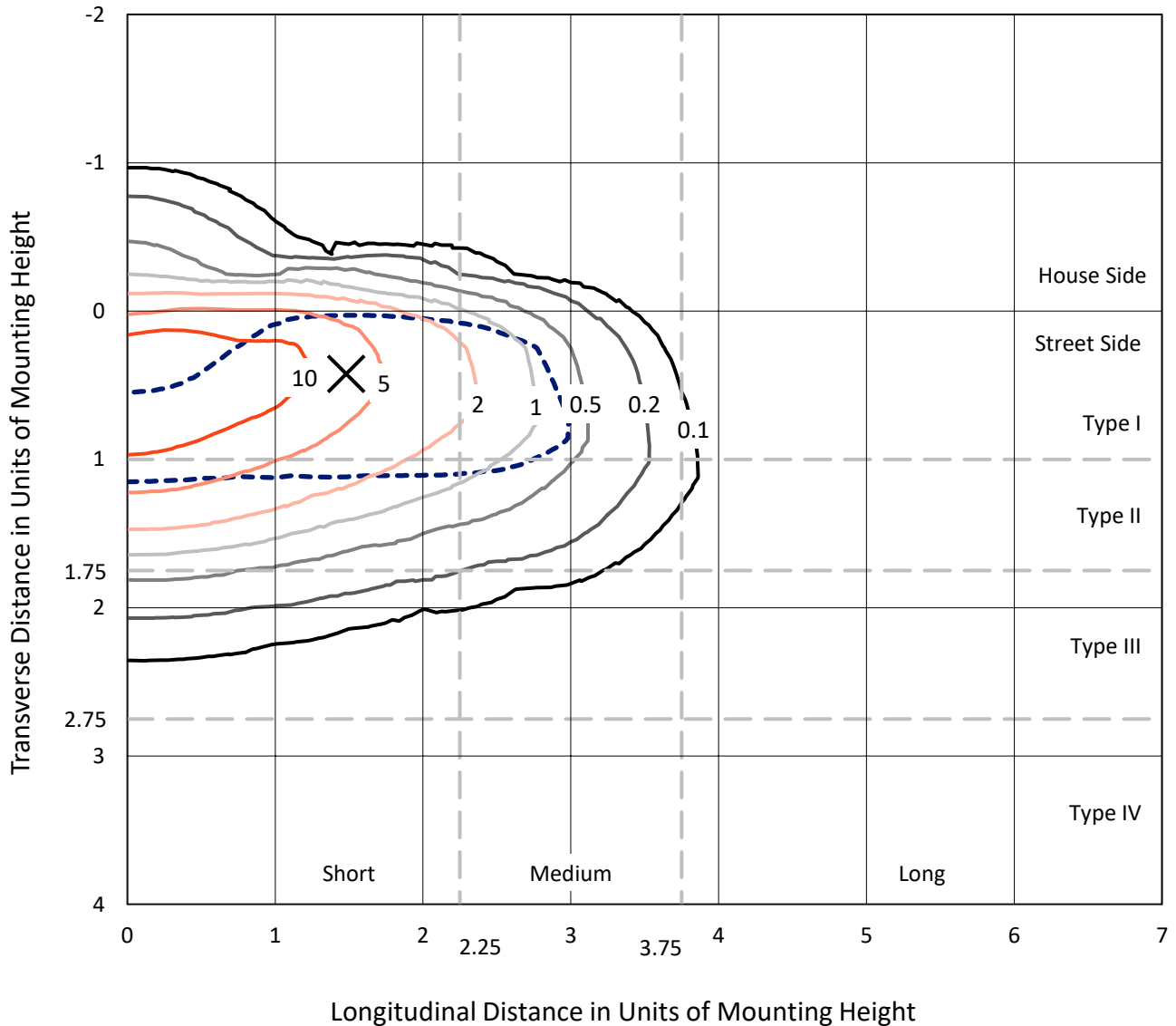
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

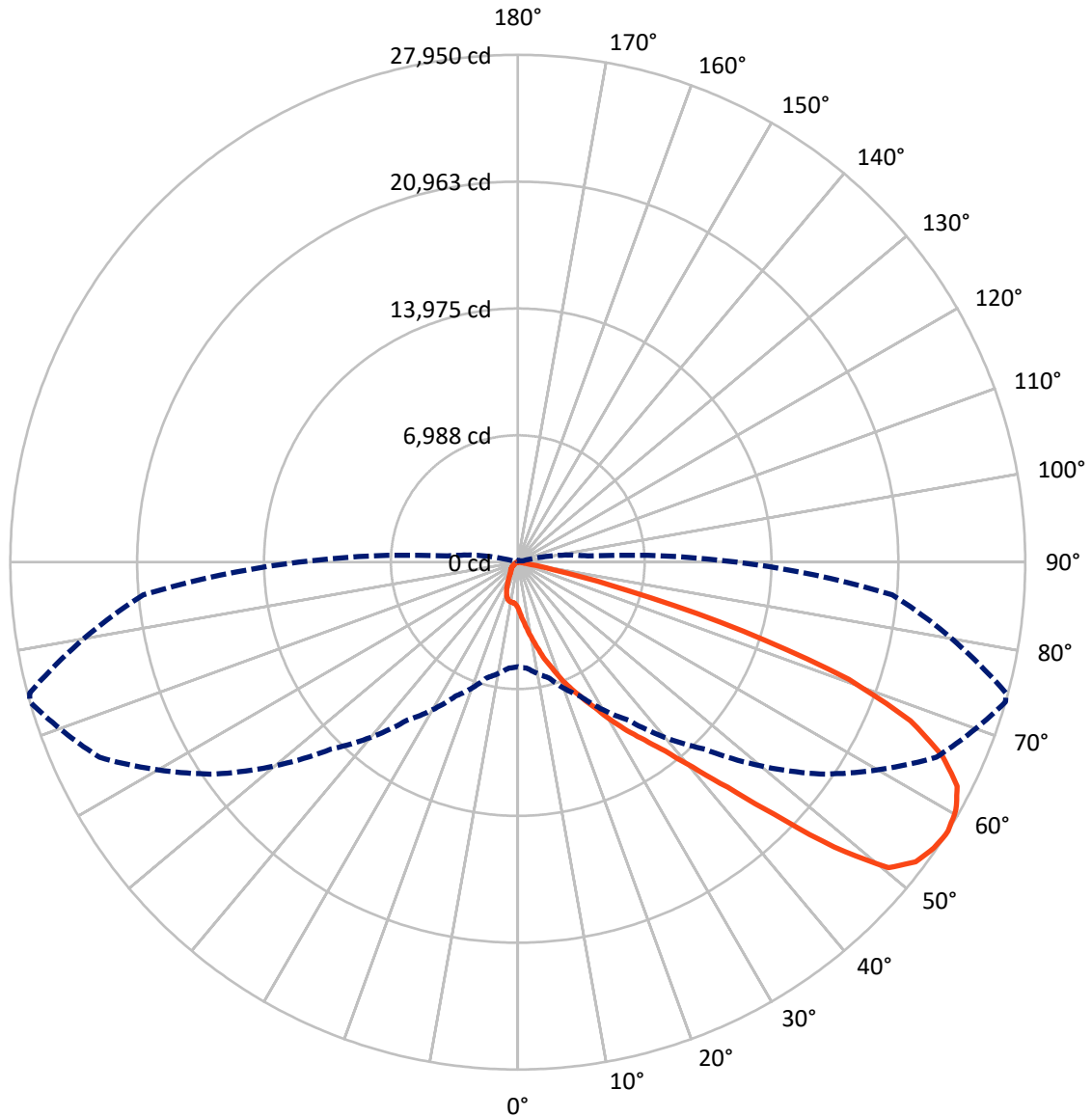
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	1743.5	0.0	1743.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	28485.5	0.0	28485.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	30229.0	0.0	30229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	1.0
10°-20°	1204.5	4.0
20°-30°	2577.2	8.5
30°-40°	4736.9	15.7
40°-50°	7261.8	24.0
50°-60°	7682.0	25.4
60°-70°	5016.5	16.6
70°-80°	1370.7	4.5
80°-90°	73.8	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°	30229.0	100.0
0°-180°	30229.0	100.0

Coefficient of Utilization



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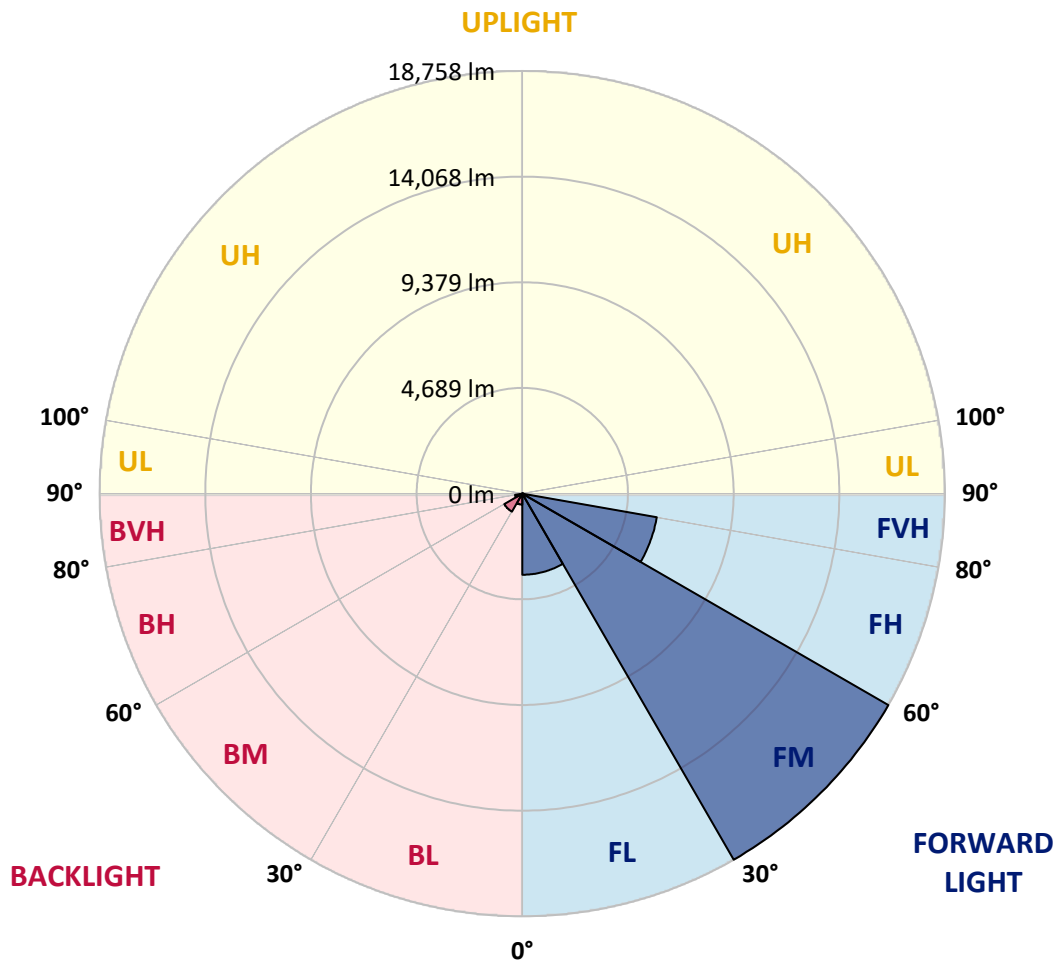
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.2	11.9			
FM (30°-60°)	18757.6	62.1			
FH (60°-80°)	6059.9	20.0			G3/7500
FVH (80°-90°)	67.7	0.2			G1/100
BL (0°-30°)	487.0	1.6	B1/500		
BM (30°-60°)	923.1	3.1	B1/1000		
BH (60°-80°)	327.3	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°	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6
2.5°	3704.6	3671.2	3604.4	3581.4	3483.4	3331.0	3197.4	3017.9	2876.0	2861.4	2690.3
5°	4961.0	4885.9	4854.6	4704.3	4468.5	4247.2	3867.4	3579.4	3247.5	3222.5	2878.1
7.5°	6171.5	6067.2	6035.9	5893.9	5618.4	5269.9	4777.3	4253.5	3727.5	3679.5	3130.6
10°	7048.1	7062.7	7006.4	6912.4	6689.1	6334.3	5727.0	5011.1	4261.8	4201.3	3414.5
12.5°	7676.3	7674.2	7684.7	7682.6	7563.6	7294.4	6655.7	5831.3	4850.4	4731.4	3740.1
15°	8085.4	8091.6	8123.0	8231.5	8244.0	8077.0	7544.8	6616.1	5532.9	5384.7	4092.8
17.5°	8498.6	8542.5	8592.5	8694.8	8786.6	8719.9	8344.2	7434.2	6150.7	6040.0	4470.5
20°	9181.1	9241.6	9212.4	9275.0	9323.0	9329.3	9039.2	8189.7	6899.9	6714.2	4902.6
22.5°	10272.7	10270.6	10195.4	10082.7	9988.8	9984.6	9721.7	8966.1	7580.3	7400.8	5336.7
25°	11652.2	11658.5	11512.4	11191.0	10957.2	10671.3	10368.7	9646.5	8308.7	8087.5	5793.8
27.5°	13234.2	13194.6	12973.3	12530.9	12067.6	11579.2	11143.0	10437.5	9080.9	8897.3	6317.6
30°	14655.5	14640.9	14382.1	13841.6	13232.1	12741.7	12109.3	11428.9	10080.6	9855.2	6904.1
32.5°	15978.8	15999.6	15640.6	15081.3	14492.7	13927.1	13259.3	12376.4	11061.6	10742.2	7542.7
35°	17011.9	17032.7	16661.2	16195.8	15590.6	15121.0	14484.4	13386.6	12030.0	11760.7	8277.4
37.5°	17562.9	17590.0	17375.0	17024.4	16646.6	16410.8	15818.1	14686.8	13207.1	13044.3	9145.6
40°	17667.2	17698.5	17604.6	17510.7	17489.8	17658.9	17485.6	16218.8	14839.2	14584.6	10439.6
42.5°	17354.1	17395.9	17437.6	17646.3	18072.1	18692.0	19295.1	18297.5	16940.9	16598.6	12021.6
45°	16531.8	16527.7	16692.5	17233.1	18186.9	19510.1	21186.0	20900.1	19804.4	19397.4	14256.9
47.5°	15125.1	15104.3	15461.2	16231.3	17717.3	19660.4	22728.4	24060.0	23458.9	23083.2	16659.1
50°	12981.7	13084.0	13645.4	14720.2	16550.6	19205.4	23204.3	26132.4	26458.0	26059.4	18600.1
52.5°	10470.9	10466.8	11347.5	12806.4	14822.5	18203.6	22872.4	26508.1	27432.7	27128.0	19556.0
55°	7749.4	7803.6	8719.9	10191.3	12578.9	16375.3	21789.2	26122.0	27804.2	27589.2	20186.3
57°	5764.5	5860.5	6595.2	8152.2	10625.4	14565.8	20347.0	25431.2	27950.3	27833.4	20710.2
57.5°	5380.5	5384.7	6100.6	7515.6	10053.5	13870.8	19933.8	25143.2	27946.1	27881.4	20795.8
60°	3312.2	3416.6	3911.2	5080.0	7359.1	10825.7	17164.2	23488.1	27729.1	27823.0	21161.0
62.5°	1982.7	2026.6	2348.0	3061.8	4744.0	7901.7	14046.1	21369.7	27163.5	27449.4	21136.0
65°	1275.2	1285.6	1431.7	1853.3	2965.8	5340.9	10823.6	18570.9	25700.4	26226.4	20309.5
67.5°	985.1	1001.8	1060.2	1216.8	1719.8	3326.8	7655.4	15584.3	23333.7	24012.0	18305.9
70°	874.5	882.8	903.7	953.8	1137.5	1878.4	4762.7	12174.0	19349.4	19541.4	14325.8
72.5°	713.8	736.7	801.4	818.1	901.6	1172.9	2650.6	8171.0	13000.5	13048.5	8014.4
75°	553.1	557.3	653.3	701.3	759.7	807.7	1183.4	4119.9	6244.6	5910.6	3088.9
77.5°	413.2	432.0	475.9	536.4	619.9	578.1	530.1	1552.8	1938.9	1903.4	897.4
80°	265.1	275.5	331.8	402.8	482.1	377.8	298.5	455.0	425.8	438.3	215.0
82.5°	133.6	135.7	212.9	327.7	306.8	189.9	187.8	185.8	158.6	156.5	100.2
85°	14.6	31.3	137.7	187.8	137.7	62.6	87.7	85.6	83.5	85.6	58.4
87.5°	2.1	2.1	23.0	27.1	18.8	20.9	25.0	27.1	33.4	31.3	25.0
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°	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6
2.5°	2606.8	2523.3	2368.8	2220.7	2110.0	2039.1	1947.3	1913.9	1865.9	1859.6	1836.6
5°	2719.5	2560.9	2291.6	2078.7	1907.6	1778.2	1665.5	1571.6	1496.4	1479.7	1488.1
7.5°	2880.2	2644.3	2268.7	1978.6	1740.6	1519.4	1339.9	1229.3	1150.0	1120.8	1124.9
10°	3061.8	2755.0	2264.5	1872.1	1509.0	1237.6	1041.5	943.4	897.4	880.8	862.0
12.5°	3276.7	2882.3	2254.1	1707.2	1254.3	987.2	847.4	788.9	745.1	732.6	732.6
15°	3518.8	3017.9	2204.0	1502.7	1018.5	816.1	722.1	676.2	661.6	649.1	649.1
17.5°	3771.4	3151.5	2099.6	1250.2	845.3	699.2	640.7	613.6	592.7	578.1	578.1
20°	4059.4	3283.0	1932.6	1026.8	713.8	624.0	578.1	546.8	530.1	517.6	513.4
22.5°	4332.8	3389.4	1719.8	843.2	622.0	561.4	519.7	486.3	469.6	463.3	463.3
25°	4616.6	3454.1	1463.0	697.1	567.7	509.2	463.3	436.2	421.6	417.4	415.3
27.5°	4892.1	3491.7	1237.6	609.4	517.6	461.2	417.4	396.5	381.9	377.8	379.9
30°	5226.1	3498.0	1018.5	546.8	473.8	415.3	375.7	356.9	348.5	344.4	342.3
32.5°	5564.2	3489.6	855.7	509.2	432.0	375.7	342.3	327.7	321.4	315.2	315.2
35°	5944.0	3445.8	728.4	471.7	392.4	342.3	313.1	300.5	292.2	285.9	283.8
37.5°	6415.7	3422.8	655.3	429.9	356.9	311.0	283.8	271.3	265.1	256.7	254.6
40°	7158.7	3525.1	632.4	392.4	321.4	281.8	256.7	242.1	233.8	225.4	223.3
42.5°	8085.4	3704.6	594.8	354.8	290.1	254.6	229.6	212.9	198.3	187.8	183.7
45°	9285.5	3940.4	536.4	315.2	263.0	225.4	202.4	181.6	162.8	154.4	152.4
47.5°	10544.0	4167.9	484.2	283.8	233.8	200.4	175.3	152.4	135.7	129.4	127.3
50°	11316.2	4213.8	450.8	248.4	204.5	173.2	148.2	127.3	116.9	110.6	110.6
52.5°	11668.9	4140.8	404.9	217.1	177.4	152.4	127.3	110.6	104.4	100.2	98.1
55°	11915.2	4028.1	344.4	187.8	152.4	129.4	112.7	100.2	91.8	87.7	85.6
57°	12059.2	3875.7	298.5	164.9	131.5	112.7	100.2	89.7	81.4	73.0	73.0
57.5°	12065.5	3817.3	285.9	162.8	125.2	108.5	98.1	87.7	77.2	68.9	66.8
60°	11879.7	3416.6	229.6	137.7	100.2	91.8	81.4	68.9	54.3	45.9	43.8
62.5°	11282.8	2907.3	189.9	116.9	81.4	71.0	58.4	52.2	37.6	27.1	27.1
65°	10379.1	2358.4	162.8	93.9	66.8	52.2	39.7	37.6	23.0	12.5	10.4
67.5°	9072.6	1836.6	137.7	77.2	56.4	37.6	27.1	25.0	12.5	4.2	0.0
70°	6912.4	1252.3	114.8	62.6	41.7	27.1	18.8	14.6	8.3	2.1	0.0
72.5°	3984.3	688.7	96.0	48.0	31.3	20.9	14.6	8.3	8.3	0.0	0.0
75°	1423.4	296.4	73.0	35.5	25.0	16.7	10.4	4.2	6.3	2.1	0.0
77.5°	452.9	158.6	48.0	27.1	20.9	12.5	8.3	4.2	4.2	2.1	0.0
80°	133.6	83.5	29.2	23.0	14.6	10.4	6.3	2.1	4.2	2.1	0.0
82.5°	73.0	41.7	23.0	16.7	14.6	8.3	6.3	2.1	2.1	2.1	0.0
85°	37.6	25.0	18.8	16.7	14.6	8.3	6.3	2.1	0.0	2.1	2.1
87.5°	20.9	18.8	18.8	16.7	14.6	10.4	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)