

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: P456278

Luminaire Tested: **GALN-SA7C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32261 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

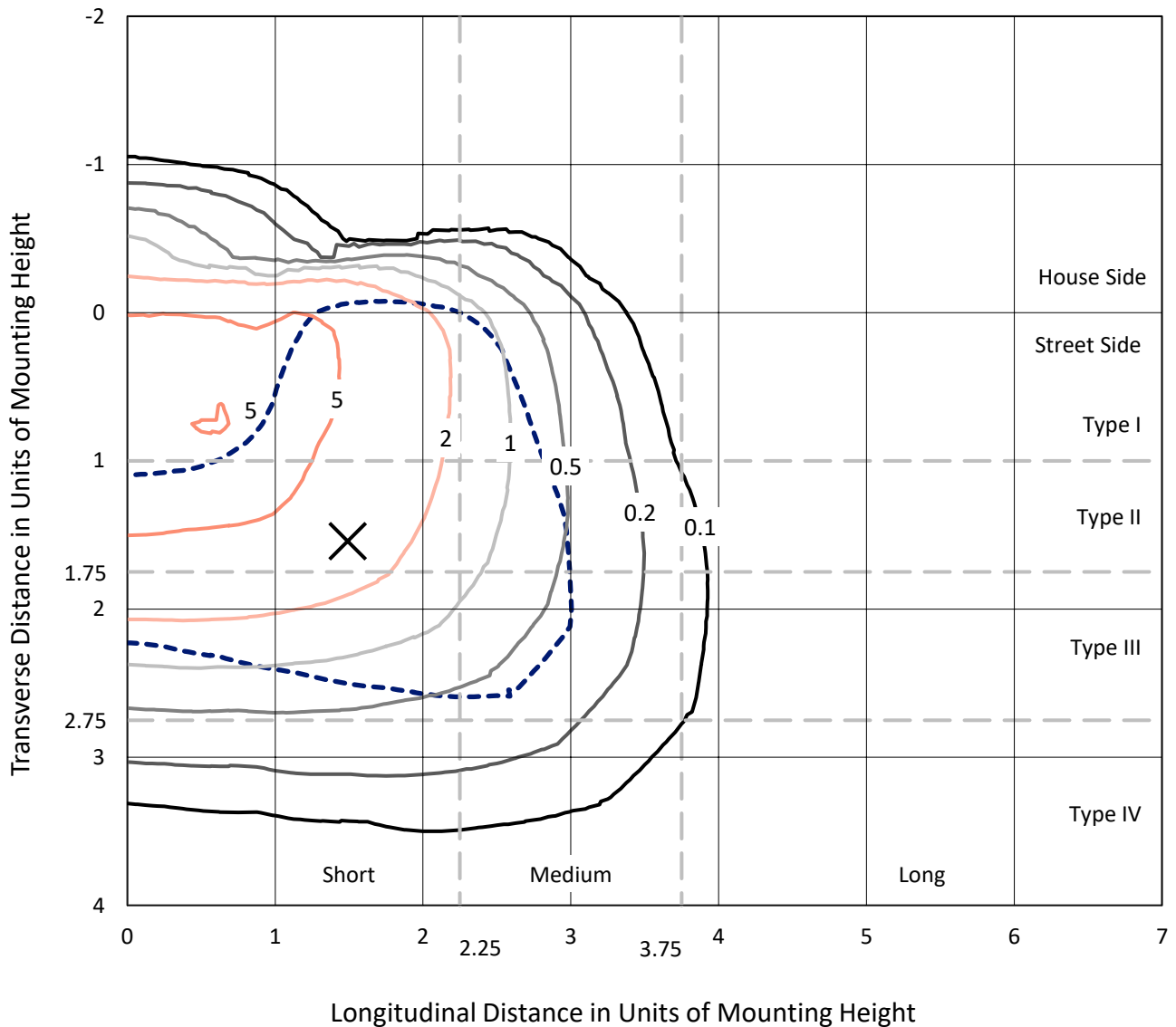
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

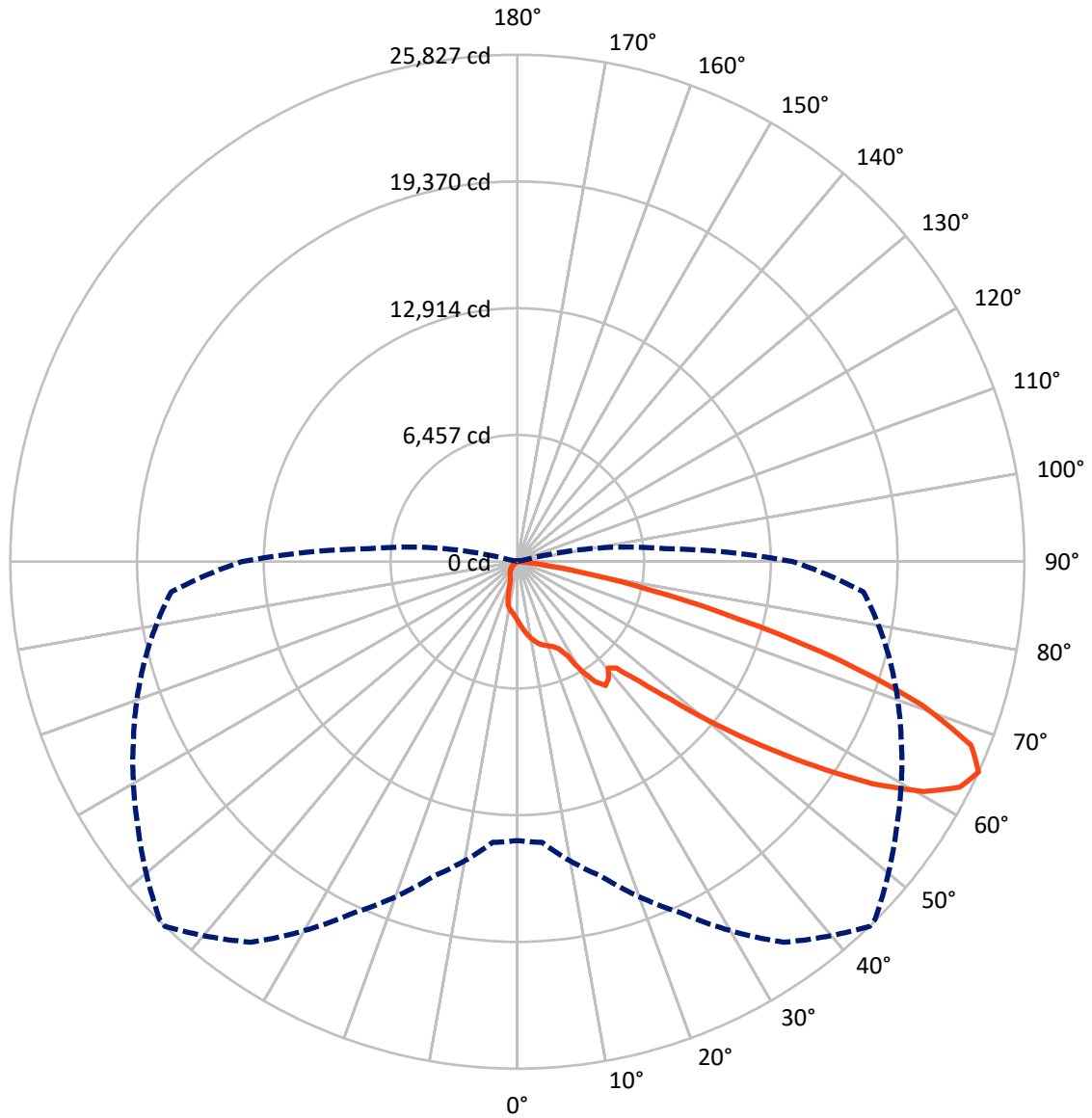
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2972.4	0.0	2972.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	29288.6	0.0	29288.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	32261.0	0.0	32261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	0.9
10°-20°	898.8	2.8
20°-30°	1524.0	4.7
30°-40°	2533.9	7.9
40°-50°	4424.3	13.7
50°-60°	8643.6	26.8
60°-70°	10028.5	31.1
70°-80°	3651.9	11.3
80°-90°	257.3	0.8
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°	32261.0	100.0
0°-180°	32261.0	100.0

Coefficient of Utilization



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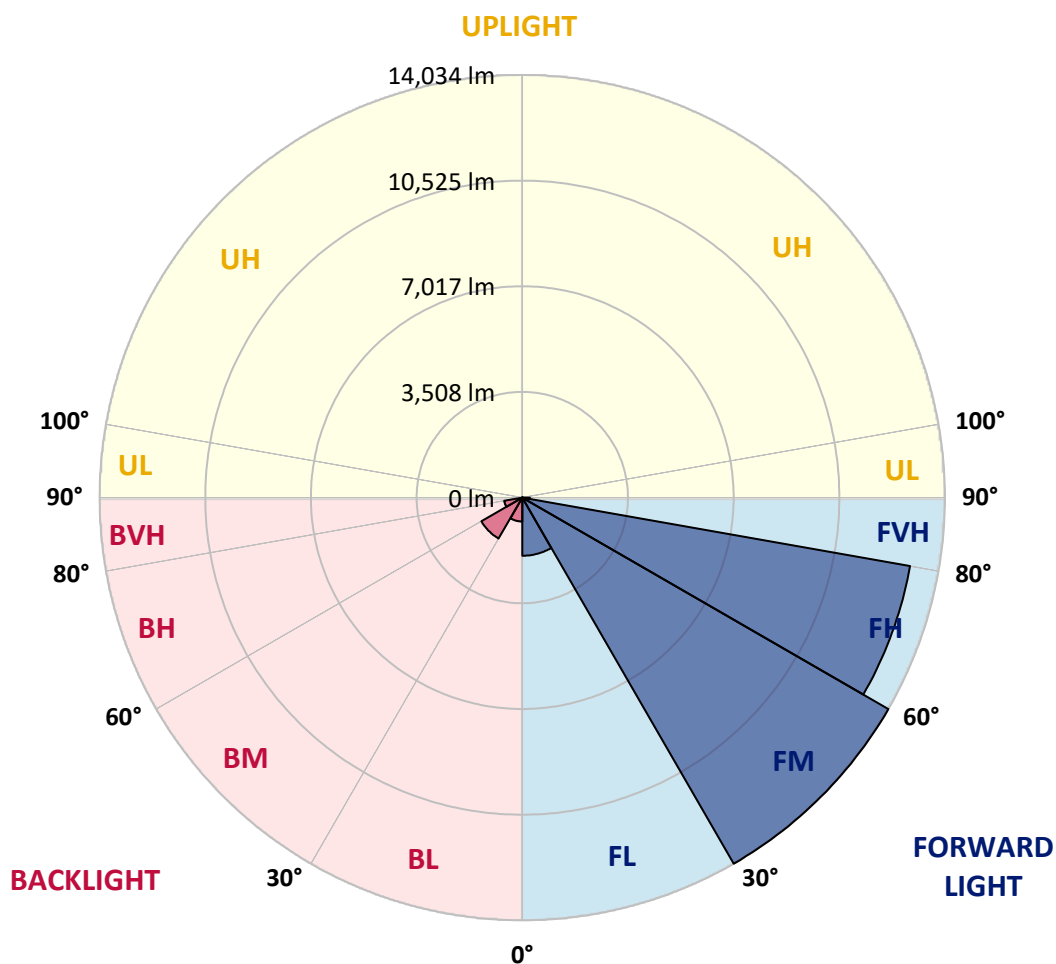
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.5	6.0			
FM (30°-60°)	14033.6	43.5			
FH (60°-80°)	13071.7	40.5			G5
FVH (80°-90°)	253.8	0.8			G3/500
BL (0°-30°)	791.9	2.5	B2/1000		
BM (30°-60°)	1568.2	4.9	B2/2500		
BH (60°-80°)	608.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.5	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5
2.5°	3379.7	3364.9	3357.5	3318.1	3288.5	3251.5	3251.5	3204.7	3150.4	3091.3	3037.0
5°	3756.9	3732.2	3700.2	3665.7	3596.6	3498.0	3498.0	3399.4	3286.0	3185.0	3074.0
7.5°	4119.2	4097.1	4042.8	3976.3	3862.9	3759.3	3751.9	3609.0	3473.4	3320.5	3162.8
10°	4437.2	4420.0	4373.2	4245.0	4126.6	3991.1	3988.6	3828.4	3670.6	3483.2	3288.5
12.5°	4659.1	4661.6	4599.9	4476.7	4323.9	4195.7	4185.8	4028.0	3862.9	3660.7	3421.6
15°	4816.9	4816.9	4752.8	4614.7	4476.7	4363.3	4353.4	4215.4	4045.3	3825.9	3567.1
17.5°	4861.3	4876.0	4807.0	4683.8	4572.8	4474.2	4471.8	4355.9	4220.3	4008.3	3715.0
20°	4844.0	4858.8	4804.6	4708.4	4632.0	4575.3	4567.9	4521.1	4395.3	4195.7	3872.7
22.5°	4807.0	4821.8	4782.4	4725.7	4688.7	4705.9	4693.6	4733.1	4666.5	4424.9	4060.1
25°	4814.4	4829.2	4799.6	4767.6	4799.6	4905.6	4937.7	5107.8	5048.6	4715.8	4262.2
27.5°	5046.1	5075.7	5033.8	5048.6	5162.0	5408.5	5470.1	5763.5	5502.2	5085.6	4577.8
30°	5561.3	5541.6	5462.7	5534.2	5928.7	6451.3	6434.0	6387.2	5978.0	5512.0	4952.5
32.5°	6029.7	6012.5	6007.5	6315.7	7030.6	7284.5	7272.2	6818.6	6404.4	6000.1	5322.2
35°	6219.5	6153.0	6138.2	6885.1	8080.7	7745.5	7669.0	6996.1	6922.1	6532.6	5699.4
37.5°	6791.5	6744.6	6515.4	6978.8	7661.6	7550.7	7491.6	7301.7	7474.3	7003.5	6125.9
40°	7969.8	7839.1	7632.1	7178.5	7067.5	7114.4	7173.5	7693.7	8127.6	7646.9	6695.3
42.5°	9434.1	9404.5	9019.9	8174.4	7343.6	7407.7	7484.2	8512.1	9066.8	8615.7	7624.7
45°	11191.7	11233.6	10679.0	9680.6	8591.0	8645.2	8756.2	9720.0	10338.8	10121.9	9086.5
47.5°	12789.1	12757.1	12569.7	11531.9	10526.1	10405.3	10585.3	11270.6	12098.9	12133.4	10900.8
50°	14396.4	14566.5	14287.9	13881.2	13134.3	12880.3	12813.8	13149.0	14411.2	14246.0	13080.0
52.5°	16706.2	16795.0	16272.4	16168.8	16338.9	15515.6	15449.0	15530.4	16659.4	16092.4	14711.9
55°	18158.2	18106.4	17911.7	18720.3	19393.2	18365.3	18281.5	17953.6	18525.5	17396.5	16282.2
57.5°	18616.7	18690.7	19144.3	20606.1	22198.6	21325.9	21173.1	20241.2	19871.5	18611.8	17726.8
60°	18412.1	18547.7	19526.4	21700.6	23909.4	23778.7	23648.1	22082.7	20837.8	19627.4	18740.0
62.5°	16955.2	17145.0	18710.4	21505.9	24488.7	25304.6	25141.9	23231.5	21481.2	20120.4	18917.5
65°	14209.1	14349.6	16597.8	19738.4	23665.3	25827.2	25768.1	23591.4	21582.3	19669.3	17702.1
67.5°	10129.2	10607.5	12690.5	16634.7	21229.8	24934.9	25035.9	23160.0	20633.2	17719.4	14660.2
70°	6367.4	6692.8	8186.7	11909.1	17019.3	21875.6	22208.4	21185.4	17906.8	13812.2	9813.7
72.5°	3037.0	3278.6	4343.6	7538.4	12012.6	17211.6	17475.4	17391.5	13846.7	8701.9	5063.4
75°	1353.4	1444.6	2073.2	3848.1	7755.3	11568.9	12251.7	12365.1	8652.6	4257.3	1969.6
77.5°	690.2	692.7	971.3	1863.6	3872.7	6902.4	7038.0	7434.9	4691.2	1876.0	685.3
80°	367.3	392.0	515.2	880.1	2009.1	3399.4	3382.2	3717.4	2080.6	919.5	229.3
82.5°	165.2	182.4	290.9	461.0	981.1	1289.3	1390.3	1521.0	892.4	586.7	101.1
85°	49.3	59.2	143.0	231.7	355.0	372.2	416.6	537.4	505.4	416.6	51.8
87.5°	7.4	7.4	59.2	64.1	51.8	66.6	69.0	76.4	162.7	152.8	27.1
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°	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5	3002.5
2.5°	3007.5	2990.2	2928.6	2876.8	2832.4	2805.3	2773.3	2753.6	2743.7	2736.3	2738.8
5°	3019.8	2977.9	2871.9	2788.1	2724.0	2655.0	2608.1	2581.0	2568.7	2549.0	2549.0
7.5°	3088.8	3022.3	2874.3	2746.2	2635.2	2541.6	2452.8	2420.8	2398.6	2393.6	2388.7
10°	3187.4	3103.6	2901.5	2724.0	2566.2	2438.0	2312.3	2201.4	2115.1	2063.3	2055.9
12.5°	3310.7	3189.9	2943.4	2709.2	2507.0	2280.3	1947.5	1723.1	1572.8	1525.9	1533.3
15°	3424.1	3293.4	2985.3	2696.9	2398.6	1890.8	1513.6	1257.2	1180.8	1173.4	1175.9
17.5°	3559.7	3404.4	3034.6	2679.6	2100.3	1444.6	1124.1	1055.1	1069.9	1094.5	1092.1
20°	3700.2	3522.7	3093.7	2576.1	1676.3	1087.1	993.5	1000.8	1023.0	1045.2	1050.1
22.5°	3850.5	3658.3	3162.8	2327.1	1279.4	946.6	941.7	951.5	973.7	998.4	1003.3
25°	4057.6	3828.4	3214.5	2001.7	968.8	875.1	885.0	902.2	922.0	949.1	954.0
27.5°	4323.9	4057.6	3241.7	1577.7	838.1	811.0	813.5	838.1	862.8	887.4	887.4
30°	4669.0	4331.2	3187.4	1193.1	774.1	749.4	739.5	754.3	786.4	811.0	813.5
32.5°	4977.1	4590.1	3044.4	912.1	727.2	692.7	668.1	670.5	682.8	697.6	700.1
35°	5285.3	4841.5	2800.4	766.7	677.9	638.5	601.5	581.8	571.9	564.5	571.9
37.5°	5679.7	5154.6	2475.0	697.6	636.0	586.7	534.9	493.0	458.5	436.3	441.3
40°	6187.5	5588.5	2090.4	653.3	596.6	537.4	468.4	414.1	355.0	335.3	325.4
42.5°	7025.6	6246.7	1686.2	616.3	557.1	485.6	399.4	325.4	271.2	251.4	256.4
45°	8349.4	7077.4	1299.1	576.8	517.7	428.9	335.3	256.4	212.0	202.1	207.1
47.5°	10104.6	8152.2	1000.8	532.5	468.4	367.3	263.8	202.1	175.0	172.6	170.1
50°	11756.2	9153.1	835.7	483.2	409.2	305.7	216.9	170.1	152.8	150.4	150.4
52.5°	13250.1	9870.4	680.4	426.5	345.1	251.4	182.4	150.4	135.6	128.2	128.2
55°	14578.8	10338.8	552.2	357.4	271.2	199.7	157.8	135.6	118.3	108.5	106.0
57.5°	15582.1	10395.5	414.1	286.0	202.1	155.3	135.6	118.3	98.6	86.3	81.3
60°	16011.1	9904.9	305.7	216.9	150.4	123.3	108.5	96.1	74.0	61.6	59.2
62.5°	15579.7	8950.9	226.8	165.2	115.9	91.2	76.4	71.5	51.8	37.0	34.5
65°	14034.0	7572.9	180.0	125.7	86.3	66.6	49.3	46.8	32.0	17.3	14.8
67.5°	11243.5	5931.1	143.0	93.7	61.6	44.4	32.0	29.6	17.3	4.9	4.9
70°	7311.6	3791.4	115.9	69.0	39.4	29.6	19.7	14.8	9.9	2.5	0.0
72.5°	3616.4	1772.4	93.7	54.2	27.1	14.8	7.4	4.9	7.4	0.0	0.0
75°	1402.7	631.1	69.0	37.0	14.8	7.4	4.9	0.0	2.5	0.0	0.0
77.5°	465.9	209.5	41.9	19.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	172.6	81.3	22.2	12.3	4.9	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	69.0	32.0	14.8	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.5	19.7	9.9	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	14.8	9.9	7.4	4.9	2.5	0.0	0.0	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)