

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: P457670

Luminaire Tested: **GALN-SA9A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457670
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-SA9A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 27313 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

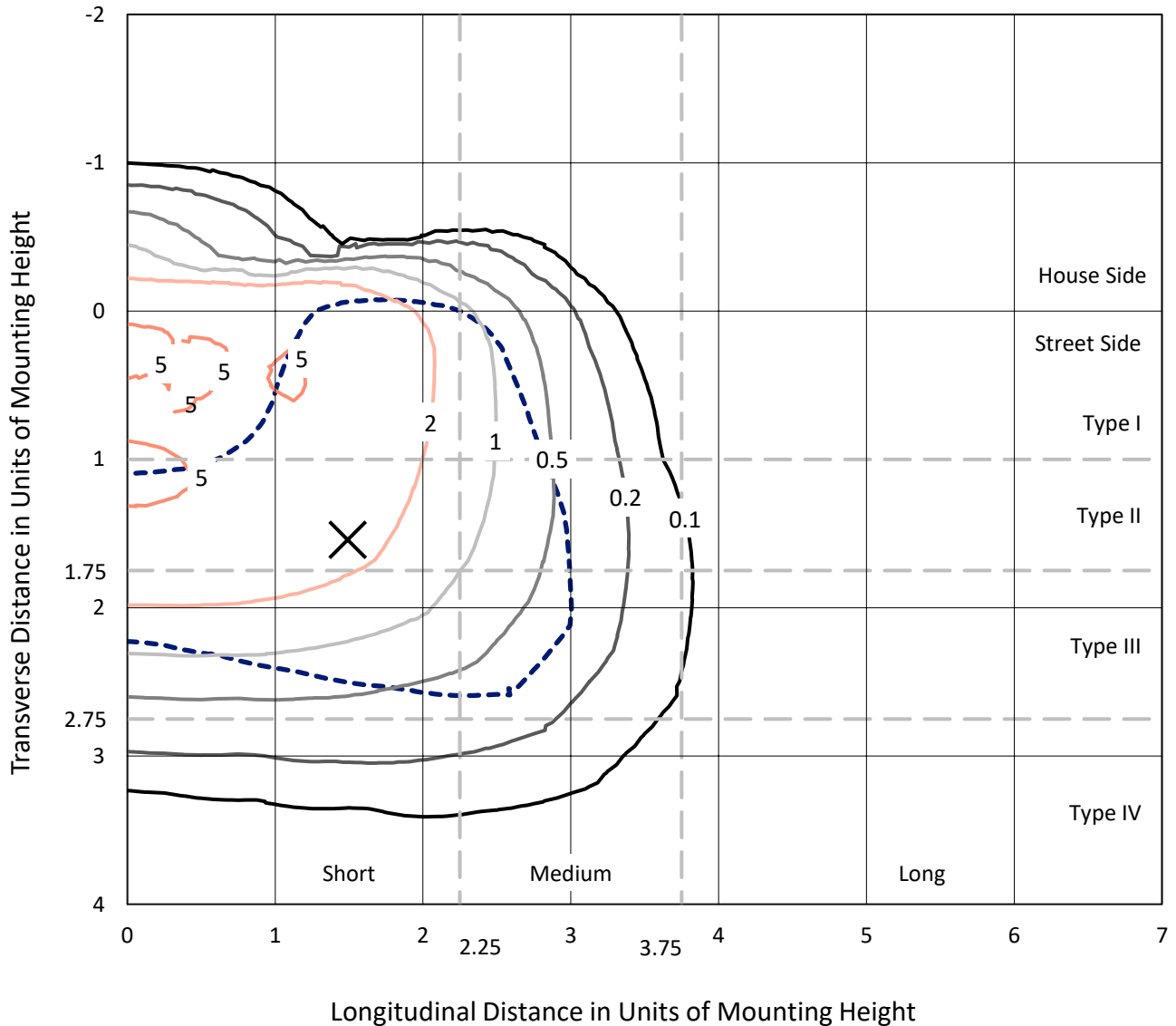
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

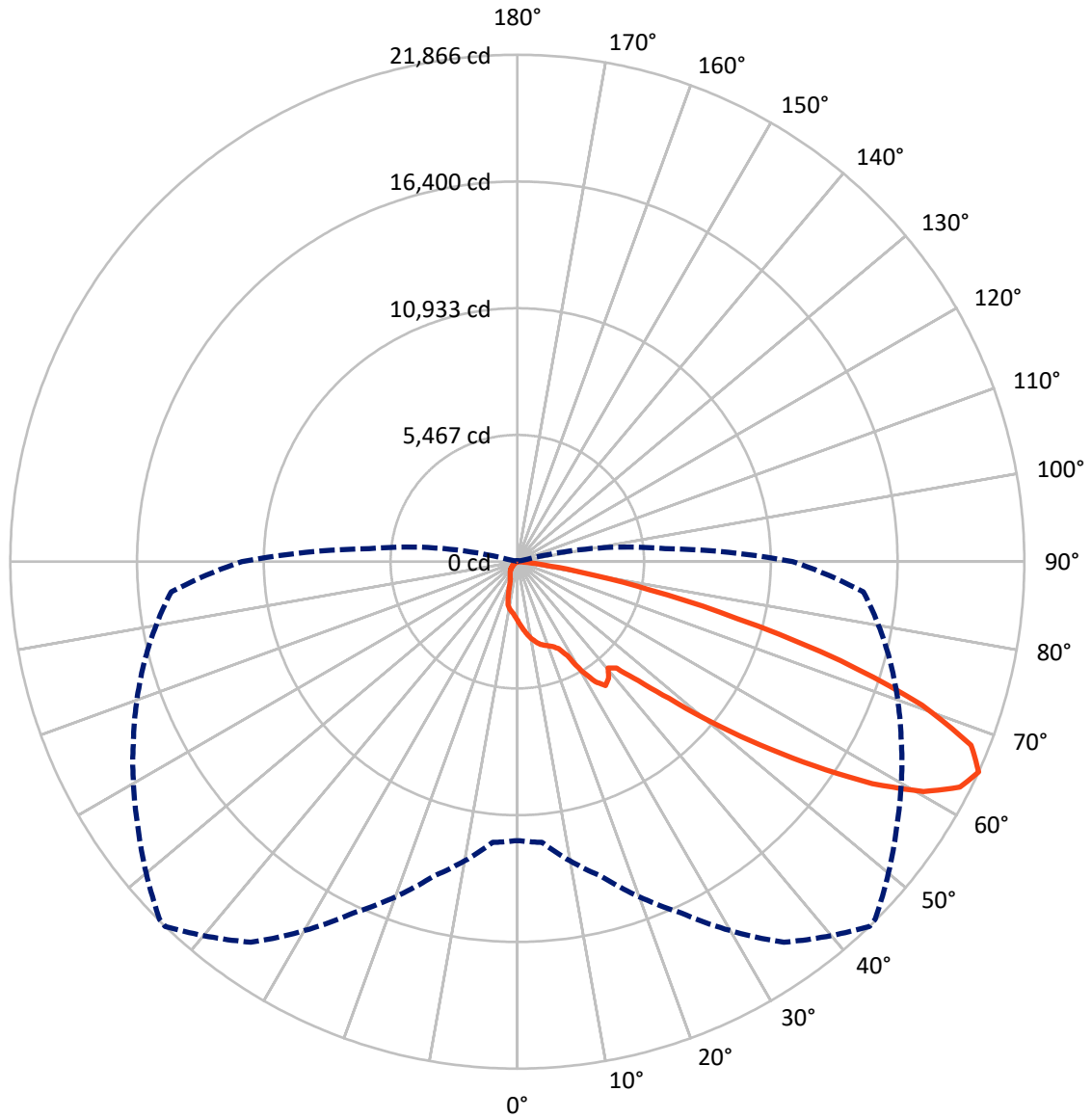
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2516.5	0.0	2516.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	24796.5	0.0	24796.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	27313.0	0.0	27313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	0.9
10°-20°	760.9	2.8
20°-30°	1290.3	4.7
30°-40°	2145.3	7.9
40°-50°	3745.7	13.7
50°-60°	7317.9	26.8
60°-70°	8490.4	31.1
70°-80°	3091.8	11.3
80°-90°	217.8	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°	27313.0	100.0
0°-180°	27313.0	100.0

Coefficient of Utilization



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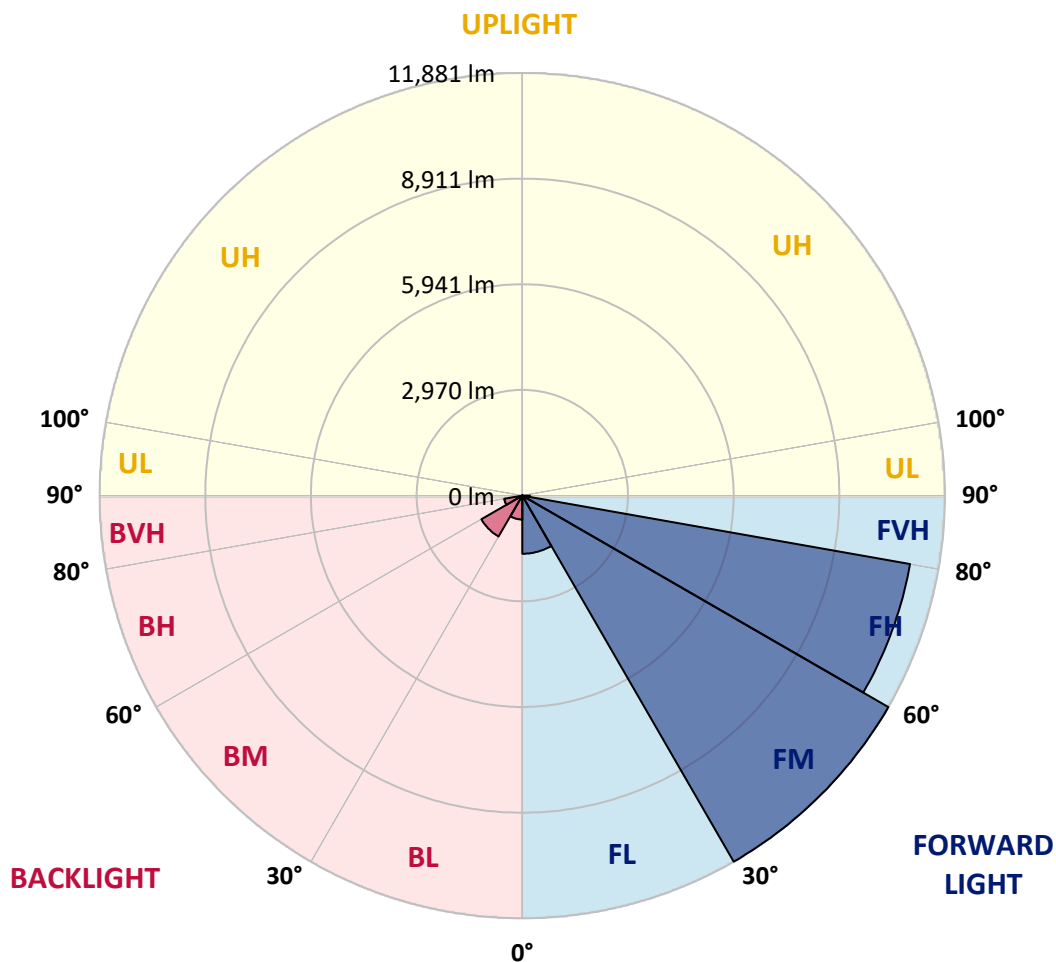
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.6	6.0			
FM (30°-60°)	11881.2	43.5			
FH (60°-80°)	11066.9	40.5			G4/12000
FVH (80°-90°)	214.9	0.8			G2/225
BL (0°-30°)	670.5	2.5	B2/1000		
BM (30°-60°)	1327.7	4.9	B2/2500		
BH (60°-80°)	515.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0
2.5°	2861.3	2848.8	2842.6	2809.2	2784.1	2752.8	2752.8	2713.2	2667.2	2617.2	2571.2
5°	3180.7	3159.8	3132.7	3103.4	3045.0	2961.5	2961.5	2878.0	2782.0	2696.5	2602.6
7.5°	3487.5	3468.7	3422.8	3366.4	3270.4	3182.7	3176.5	3055.4	2940.7	2811.3	2677.7
10°	3756.7	3742.1	3702.4	3593.9	3493.7	3378.9	3376.8	3241.2	3107.6	2949.0	2784.1
12.5°	3944.5	3946.6	3894.4	3790.1	3660.7	3552.2	3543.8	3410.2	3270.4	3099.3	2896.8
15°	4078.1	4078.1	4023.8	3907.0	3790.1	3694.1	3685.7	3568.9	3424.8	3239.1	3020.0
17.5°	4115.7	4128.2	4069.7	3965.4	3871.5	3788.0	3785.9	3687.8	3573.0	3393.5	3145.2
20°	4101.1	4113.6	4067.7	3986.3	3921.6	3873.6	3867.3	3827.6	3721.2	3552.2	3278.8
22.5°	4069.7	4082.3	4048.9	4000.9	3969.6	3984.2	3973.7	4007.1	3950.8	3746.3	3437.4
25°	4076.0	4088.5	4063.5	4036.4	4063.5	4153.2	4180.4	4324.4	4274.3	3992.5	3608.5
27.5°	4272.2	4297.2	4261.8	4274.3	4370.3	4579.0	4631.2	4879.5	4658.3	4305.6	3875.7
30°	4708.4	4691.7	4624.9	4685.4	5019.4	5461.8	5447.2	5407.5	5061.1	4666.6	4192.9
32.5°	5104.9	5090.3	5086.1	5347.0	5952.3	6167.2	6156.8	5772.8	5422.2	5079.9	4505.9
35°	5265.6	5209.3	5196.8	5829.1	6841.3	6557.5	6492.8	5923.0	5860.4	5530.7	4825.3
37.5°	5749.8	5710.2	5516.1	5908.4	6486.5	6392.6	6342.5	6181.8	6327.9	5929.3	5186.3
40°	6747.4	6636.8	6461.5	6077.5	5983.6	6023.2	6073.3	6513.7	6881.0	6474.0	5668.4
42.5°	7987.1	7962.1	7636.5	6920.7	6217.3	6271.6	6336.3	7206.6	7676.2	7294.2	6455.2
45°	9475.2	9510.7	9041.1	8195.8	7273.4	7319.3	7413.2	8229.2	8753.1	8569.4	7692.9
47.5°	10827.6	10800.5	10641.9	9763.2	8911.7	8809.4	8961.8	9542.0	10243.2	10272.5	9228.9
50°	12188.4	12332.4	12096.5	11752.2	11119.8	10904.8	10848.5	11132.3	12200.9	12061.1	11073.9
52.5°	14143.9	14219.1	13776.6	13689.0	13833.0	13135.9	13079.5	13148.4	14104.3	13624.3	12455.5
55°	15373.2	15329.4	15164.5	15849.1	16418.8	15548.5	15477.6	15200.0	15684.2	14728.3	13785.0
57.5°	15761.4	15824.0	16208.0	17445.6	18793.9	18055.1	17925.7	17136.8	16823.7	15757.2	15008.0
60°	15588.2	15703.0	16531.5	18372.3	20242.3	20131.7	20021.1	18695.8	17641.8	16617.1	15865.7
62.5°	14354.7	14515.4	15840.7	18207.4	20732.7	21423.6	21285.8	19668.4	18186.5	17034.5	16016.0
65°	12029.8	12148.7	14052.1	16711.0	20035.7	21866.0	21815.9	19973.1	18272.1	16652.6	14987.1
67.5°	8575.7	8980.6	10744.1	14083.4	17973.7	21110.5	21196.1	19607.8	17468.6	15001.7	12411.7
70°	5390.8	5666.3	6931.1	10082.5	14409.0	18520.5	18802.2	17936.1	15160.3	11693.7	8308.5
72.5°	2571.2	2775.8	3677.4	6382.2	10170.2	14571.8	14795.1	14724.1	11723.0	7367.3	4286.8
75°	1145.8	1223.0	1755.2	3257.9	6565.9	9794.5	10372.6	10468.6	7325.5	3604.3	1667.6
77.5°	584.4	586.5	822.3	1577.8	3278.8	5843.7	5958.5	6294.5	3971.7	1588.2	580.2
80°	311.0	331.8	436.2	745.1	1700.9	2878.0	2863.4	3147.3	1761.5	778.5	194.1
82.5°	139.8	154.4	246.3	390.3	830.6	1091.5	1177.1	1287.7	755.5	496.7	85.6
85°	41.7	50.1	121.0	196.2	300.5	315.1	352.7	455.0	427.8	352.7	43.8
87.5°	6.3	6.3	50.1	54.3	43.8	56.4	58.4	64.7	137.7	129.4	23.0
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°	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0
2.5°	2546.2	2531.6	2479.4	2435.6	2398.0	2375.1	2347.9	2331.2	2322.9	2316.6	2318.7
5°	2556.6	2521.2	2431.4	2360.5	2306.2	2247.8	2208.1	2185.1	2174.7	2158.0	2158.0
7.5°	2615.1	2558.7	2433.5	2325.0	2231.1	2151.7	2076.6	2049.5	2030.7	2026.5	2022.4
10°	2698.6	2627.6	2456.5	2306.2	2172.6	2064.1	1957.7	1863.7	1790.7	1746.9	1740.6
12.5°	2802.9	2700.6	2491.9	2293.7	2122.5	1930.5	1648.8	1458.8	1331.5	1291.9	1298.1
15°	2898.9	2788.3	2527.4	2283.2	2030.7	1600.8	1281.4	1064.4	999.7	993.4	995.5
17.5°	3013.7	2882.2	2569.2	2268.6	1778.2	1223.0	951.7	893.3	905.8	926.6	924.6
20°	3132.7	2982.4	2619.2	2181.0	1419.2	920.4	841.1	847.3	866.1	884.9	889.1
22.5°	3260.0	3097.2	2677.7	1970.2	1083.2	801.4	797.3	805.6	824.4	845.3	849.4
25°	3435.3	3241.2	2721.5	1694.7	820.2	740.9	749.3	763.9	780.6	803.5	807.7
27.5°	3660.7	3435.3	2744.5	1335.7	709.6	686.6	688.7	709.6	730.5	751.3	751.3
30°	3952.9	3666.9	2698.6	1010.1	655.3	634.5	626.1	638.6	665.8	686.6	688.7
32.5°	4213.8	3886.1	2577.5	772.2	615.7	586.5	565.6	567.7	578.1	590.6	592.7
35°	4474.6	4099.0	2370.9	649.1	573.9	540.5	509.2	492.5	484.2	477.9	484.2
37.5°	4808.6	4364.0	2095.4	590.6	538.5	496.7	452.9	417.4	388.2	369.4	373.6
40°	5238.5	4731.3	1769.8	553.1	505.1	455.0	396.5	350.6	300.5	283.8	275.5
42.5°	5948.1	5288.6	1427.5	521.8	471.7	411.1	338.1	275.5	229.6	212.9	217.1
45°	7068.8	5991.9	1099.9	488.4	438.3	363.1	283.8	217.1	179.5	171.1	175.3
47.5°	8554.8	6901.9	847.3	450.8	396.5	311.0	223.3	171.1	148.2	146.1	144.0
50°	9953.1	7749.2	707.5	409.1	346.5	258.8	183.7	144.0	129.4	127.3	127.3
52.5°	11217.9	8356.5	576.0	361.1	292.2	212.9	154.4	127.3	114.8	108.5	108.5
55°	12342.8	8753.1	467.5	302.6	229.6	169.1	133.6	114.8	100.2	91.8	89.7
57.5°	13192.2	8801.1	350.6	242.1	171.1	131.5	114.8	100.2	83.5	73.0	68.9
60°	13555.4	8385.8	258.8	183.7	127.3	104.4	91.8	81.4	62.6	52.2	50.1
62.5°	13190.2	7578.1	192.0	139.8	98.1	77.2	64.7	60.5	43.8	31.3	29.2
65°	11881.6	6411.4	152.4	106.4	73.0	56.4	41.7	39.7	27.1	14.6	12.5
67.5°	9519.0	5021.4	121.0	79.3	52.2	37.6	27.1	25.0	14.6	4.2	4.2
70°	6190.2	3209.9	98.1	58.4	33.4	25.0	16.7	12.5	8.3	2.1	0.0
72.5°	3061.7	1500.6	79.3	45.9	23.0	12.5	6.3	4.2	6.3	0.0	0.0
75°	1187.5	534.3	58.4	31.3	12.5	6.3	4.2	0.0	2.1	0.0	0.0
77.5°	394.5	177.4	35.5	16.7	8.3	4.2	0.0	0.0	0.0	0.0	0.0
80°	146.1	68.9	18.8	10.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	58.4	27.1	12.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.2	16.7	8.3	6.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	12.5	8.3	6.3	4.2	2.1	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)