

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: P456713

Luminaire Tested: **GALN-SA8A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456713
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-SA8A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 22341 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244
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

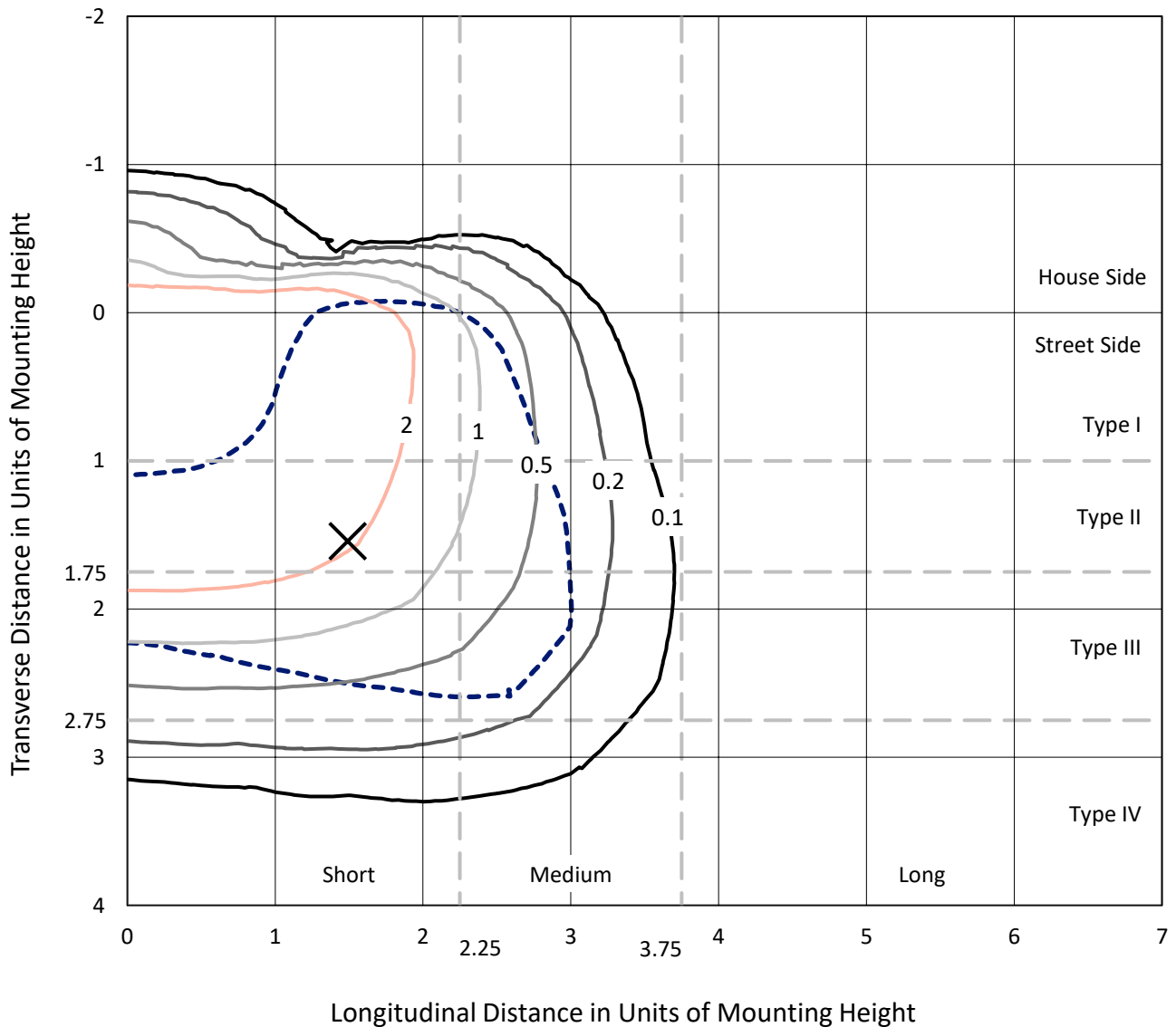




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Iso-Footcandle Lines of Horizontal Illumination

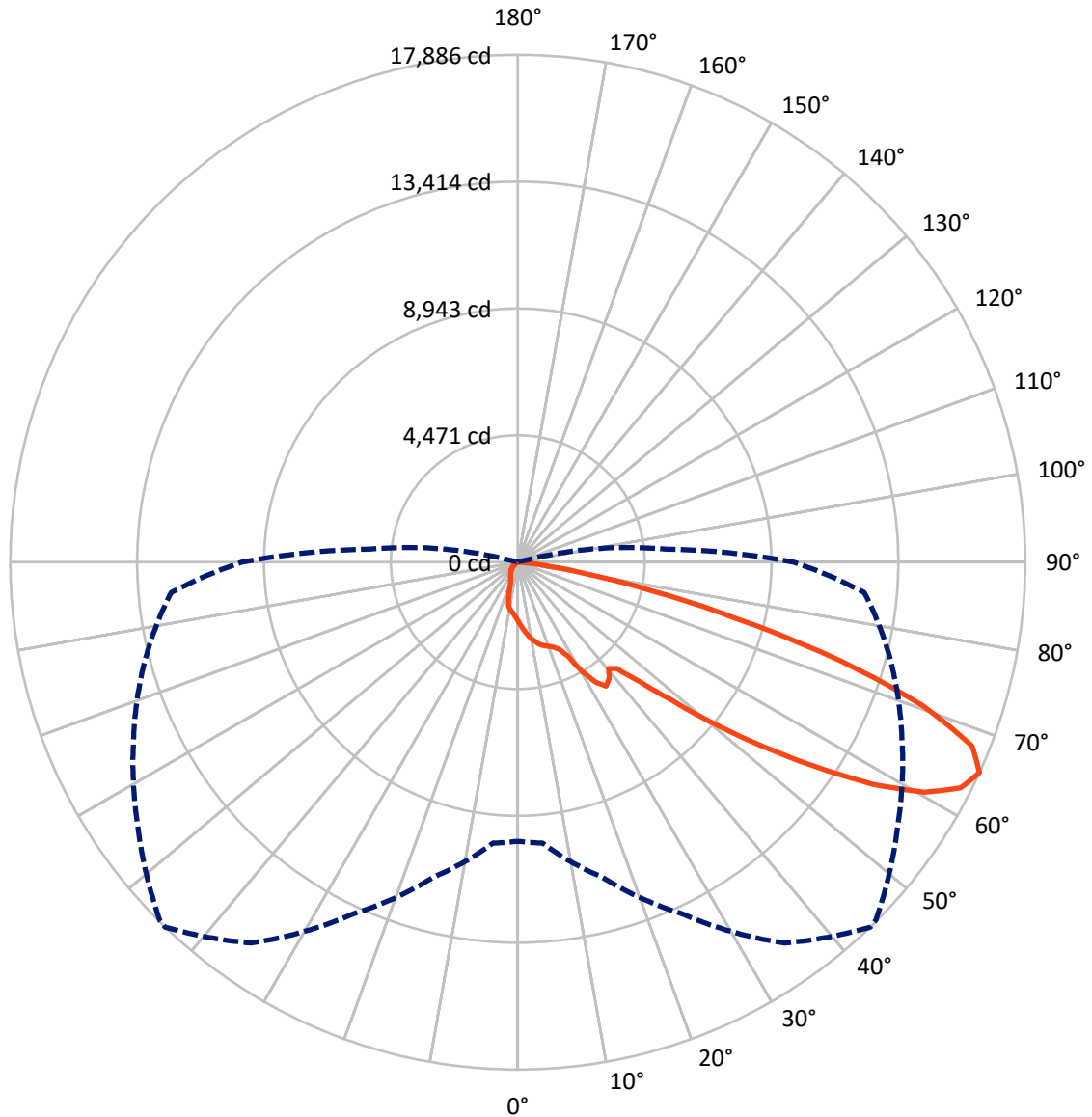
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2058.4	0.0	2058.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20282.6	0.0	20282.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	22341.0	0.0	22341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	0.9
10°-20°	622.4	2.8
20°-30°	1055.4	4.7
30°-40°	1754.8	7.9
40°-50°	3063.9	13.7
50°-60°	5985.7	26.8
60°-70°	6944.8	31.1
70°-80°	2529.0	11.3
80°-90°	178.2	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°	22341.0	100.0
0°-180°	22341.0	100.0

Coefficient of Utilization



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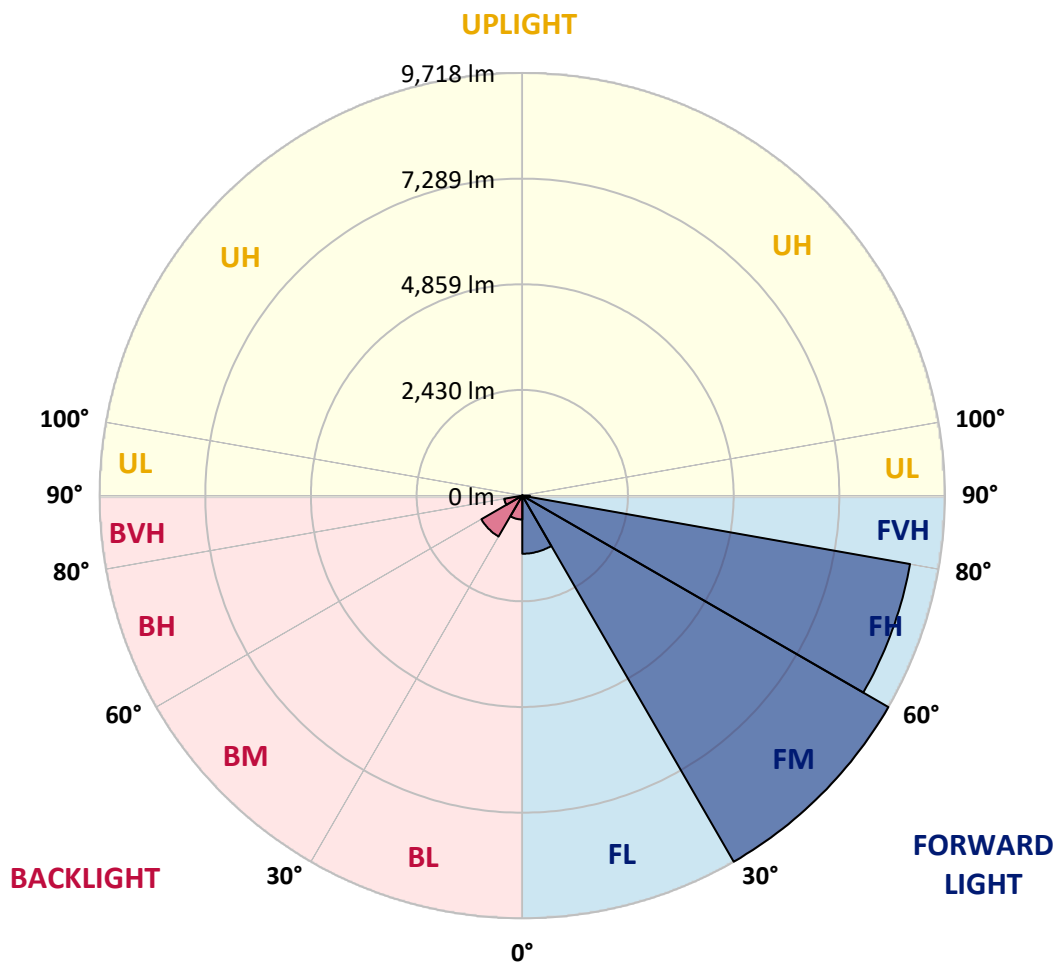
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.2	6.0			
FM	(30°-60°)	9718.4	43.5			
FH	(60°-80°)	9052.3	40.5			G4/12000
FVH	(80°-90°)	175.8	0.8			G2/225
BL	(0°-30°)	548.4	2.5	B2/1000		
BM	(30°-60°)	1086.0	4.9	B2/2500		
BH	(60°-80°)	421.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3
2.5°	2340.5	2330.2	2325.1	2297.8	2277.3	2251.7	2251.7	2219.3	2181.7	2140.7	2103.2
5°	2601.7	2584.6	2562.4	2538.5	2490.7	2422.4	2422.4	2354.1	2275.6	2205.6	2128.8
7.5°	2852.6	2837.2	2799.7	2753.6	2675.1	2603.4	2598.2	2499.2	2405.3	2299.5	2190.2
10°	3072.8	3060.9	3028.4	2939.7	2857.7	2763.8	2762.1	2651.2	2541.9	2412.2	2277.3
12.5°	3226.5	3228.2	3185.5	3100.1	2994.3	2905.5	2898.7	2789.4	2675.1	2535.1	2369.5
15°	3335.7	3335.7	3291.3	3195.7	3100.1	3021.6	3014.8	2919.2	2801.4	2649.5	2470.2
17.5°	3366.5	3376.7	3328.9	3243.5	3166.7	3098.4	3096.7	3016.5	2922.6	2775.8	2572.6
20°	3354.5	3364.7	3327.2	3260.6	3207.7	3168.4	3163.3	3130.9	3043.8	2905.5	2681.9
22.5°	3328.9	3339.1	3311.8	3272.6	3247.0	3258.9	3250.4	3277.7	3231.6	3064.3	2811.6
25°	3334.0	3344.3	3323.8	3301.6	3323.8	3397.2	3419.4	3537.2	3496.2	3265.7	2951.6
27.5°	3494.5	3515.0	3486.0	3496.2	3574.7	3745.4	3788.1	3991.3	3810.3	3521.8	3170.1
30°	3851.3	3837.6	3783.0	3832.5	4105.6	4467.6	4455.6	4423.2	4139.8	3817.1	3429.6
32.5°	4175.6	4163.7	4160.3	4373.7	4868.7	5044.6	5036.0	4721.9	4435.1	4155.1	3685.7
35°	4307.1	4261.0	4250.7	4768.0	5596.0	5363.8	5310.9	4844.8	4793.6	4523.9	3946.9
37.5°	4703.1	4670.7	4511.9	4832.9	5305.8	5228.9	5188.0	5056.5	5176.0	4849.9	4242.2
40°	5519.1	5428.7	5285.3	4971.2	4894.3	4926.8	4967.7	5327.9	5628.4	5295.5	4636.6
42.5°	6533.2	6512.7	6246.4	5660.8	5085.5	5129.9	5182.8	5894.7	6278.8	5966.4	5280.1
45°	7750.4	7779.4	7395.3	6703.9	5949.3	5986.9	6063.7	6731.2	7159.7	7009.5	6292.5
47.5°	8856.6	8834.4	8704.6	7985.9	7289.4	7205.8	7330.4	7805.0	8378.6	8402.5	7548.9
50°	9969.6	10087.4	9894.5	9612.8	9095.6	8919.7	8873.6	9105.8	9979.9	9865.5	9058.0
52.5°	11569.2	11630.7	11268.7	11197.0	11314.8	10744.7	10698.6	10754.9	11536.8	11144.1	10188.1
55°	12574.7	12538.8	12404.0	12963.9	13430.0	12718.1	12660.1	12433.0	12829.1	12047.2	11275.6
57.5°	12892.2	12943.4	13257.5	14269.9	15372.7	14768.4	14662.5	14017.2	13761.2	12888.8	12276.0
60°	12750.5	12844.4	13522.2	15027.8	16557.4	16466.9	16376.5	15292.4	14430.3	13592.1	12977.6
62.5°	11741.6	11873.1	12957.1	14893.0	16958.6	17523.7	17411.0	16088.0	14875.9	13933.6	13100.5
65°	9839.9	9937.2	11494.1	13669.0	16388.4	17885.6	17844.6	16337.2	14945.9	13621.2	12258.9
67.5°	7014.6	7345.8	8788.3	11519.7	14701.8	17267.6	17337.6	16038.5	14288.7	12270.8	10152.3
70°	4409.5	4634.9	5669.4	8247.1	11786.0	15149.0	15379.5	14671.1	12400.6	9565.0	6796.1
72.5°	2103.2	2270.5	3008.0	5220.4	8318.8	11919.2	12101.8	12043.8	9588.9	6026.2	3506.4
75°	937.2	1000.4	1435.7	2664.8	5370.6	8011.5	8484.4	8562.9	5992.0	2948.2	1364.0
77.5°	478.0	479.7	672.6	1290.6	2681.9	4780.0	4873.8	5148.7	3248.7	1299.1	474.6
80°	254.4	271.4	356.8	609.4	1391.3	2354.1	2342.2	2574.3	1440.8	636.8	158.8
82.5°	114.4	126.3	201.4	319.2	679.4	892.8	962.8	1053.3	618.0	406.3	70.0
85°	34.1	41.0	99.0	160.5	245.8	257.8	288.5	372.2	350.0	288.5	35.8
87.5°	5.1	5.1	41.0	44.4	35.8	46.1	47.8	52.9	112.7	105.8	18.8
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°	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3	2079.3
2.5°	2082.7	2070.7	2028.1	1992.2	1961.5	1942.7	1920.5	1906.9	1900.0	1894.9	1896.6
5°	2091.2	2062.2	1988.8	1930.8	1886.4	1838.6	1806.1	1787.4	1778.8	1765.2	1765.2
7.5°	2139.0	2092.9	1990.5	1901.7	1824.9	1760.0	1698.6	1676.4	1661.0	1657.6	1654.2
10°	2207.3	2149.3	2009.3	1886.4	1777.1	1688.3	1601.3	1524.5	1464.7	1428.9	1423.7
12.5°	2292.7	2209.0	2038.3	1876.1	1736.1	1579.1	1348.6	1193.3	1089.1	1056.7	1061.8
15°	2371.2	2280.7	2067.3	1867.6	1661.0	1309.4	1048.2	870.6	817.7	812.6	814.3
17.5°	2465.1	2357.5	2101.5	1855.6	1454.5	1000.4	778.4	730.7	740.9	758.0	756.3
20°	2562.4	2439.5	2142.4	1783.9	1160.8	752.8	688.0	693.1	708.5	723.8	727.2
22.5°	2666.5	2533.4	2190.2	1611.5	886.0	655.5	652.1	659.0	674.3	691.4	694.8
25°	2809.9	2651.2	2226.1	1386.2	670.9	606.0	612.9	624.8	638.5	657.2	660.7
27.5°	2994.3	2809.9	2244.9	1092.6	580.4	561.6	563.4	580.4	597.5	614.6	614.6
30°	3233.3	2999.4	2207.3	826.2	536.0	519.0	512.1	522.4	544.6	561.6	563.4
32.5°	3446.7	3178.7	2108.3	631.6	503.6	479.7	462.6	464.3	472.9	483.1	484.8
35°	3660.1	3352.8	1939.3	530.9	469.5	442.1	416.5	402.9	396.1	390.9	396.1
37.5°	3933.2	3569.6	1714.0	483.1	440.4	406.3	370.4	341.4	317.5	302.2	305.6
40°	4284.9	3870.1	1447.6	452.4	413.1	372.2	324.4	286.8	245.8	232.2	225.3
42.5°	4865.3	4325.9	1167.7	426.8	385.8	336.3	276.6	225.3	187.8	174.1	177.5
45°	5782.0	4901.2	899.7	399.5	358.5	297.0	232.2	177.5	146.8	140.0	143.4
47.5°	6997.5	5645.5	693.1	368.7	324.4	254.4	182.7	140.0	121.2	119.5	117.8
50°	8141.3	6338.6	578.7	334.6	283.4	211.7	150.2	117.8	105.8	104.1	104.1
52.5°	9175.8	6835.3	471.2	295.3	239.0	174.1	126.3	104.1	93.9	88.8	88.8
55°	10095.9	7159.7	382.4	247.5	187.8	138.3	109.3	93.9	81.9	75.1	73.4
57.5°	10790.8	7199.0	286.8	198.0	140.0	107.5	93.9	81.9	68.3	59.7	56.3
60°	11087.8	6859.2	211.7	150.2	104.1	85.4	75.1	66.6	51.2	42.7	41.0
62.5°	10789.0	6198.6	157.1	114.4	80.2	63.2	52.9	49.5	35.8	25.6	23.9
65°	9718.7	5244.3	124.6	87.1	59.7	46.1	34.1	32.4	22.2	11.9	10.2
67.5°	7786.2	4107.3	99.0	64.9	42.7	30.7	22.2	20.5	11.9	3.4	3.4
70°	5063.3	2625.6	80.2	47.8	27.3	20.5	13.7	10.2	6.8	1.7	0.0
72.5°	2504.4	1227.4	64.9	37.6	18.8	10.2	5.1	3.4	5.1	0.0	0.0
75°	971.4	437.0	47.8	25.6	10.2	5.1	3.4	0.0	1.7	0.0	0.0
77.5°	322.6	145.1	29.0	13.7	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	119.5	56.3	15.4	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	47.8	22.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	13.7	6.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	10.2	6.8	5.1	3.4	1.7	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)