

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: P456945

Luminaire Tested: **GALN-SA8B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456945
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-SA8B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 27798 lumens
Efficiency: N/A
Efficacy: 85.5 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

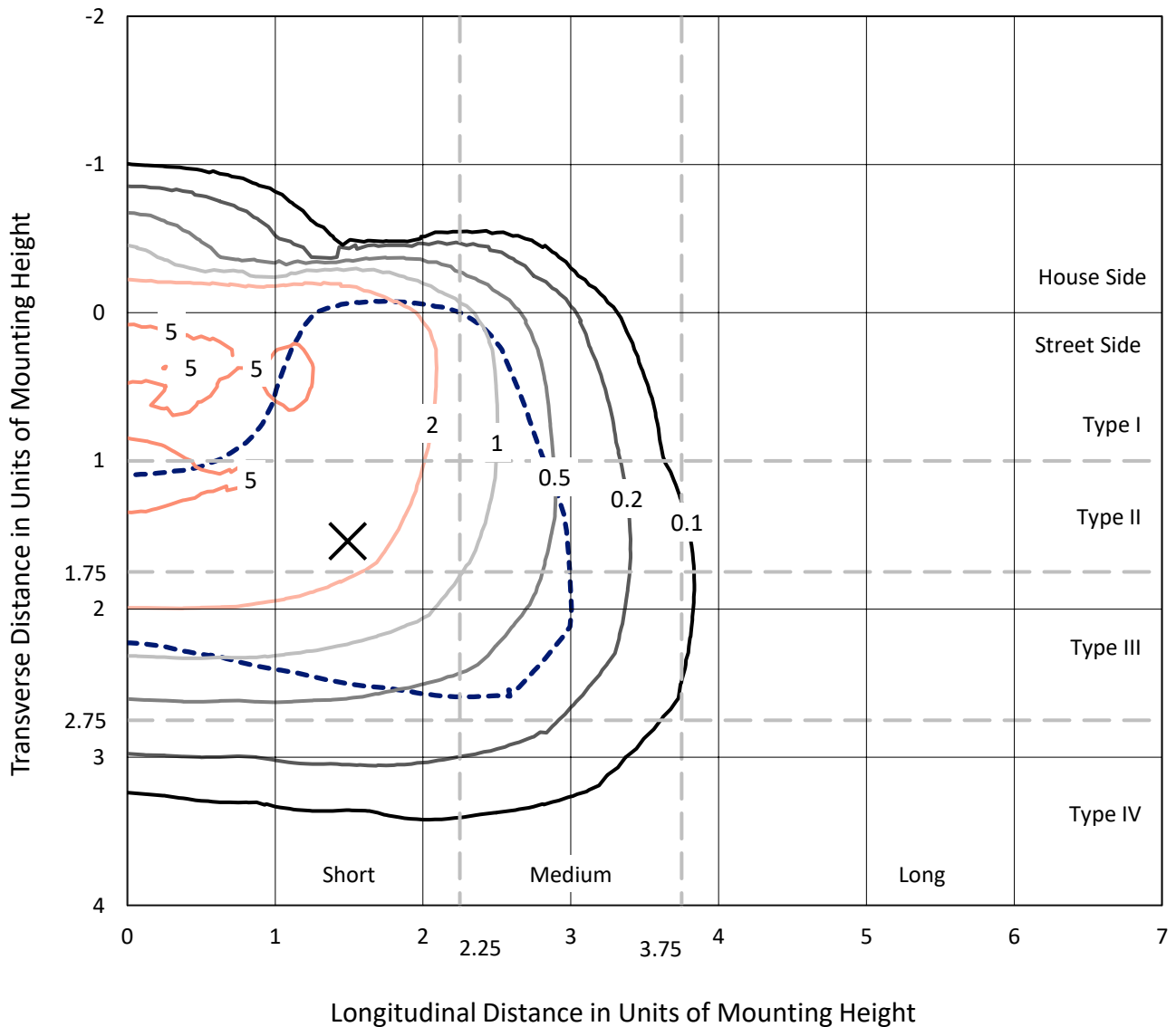
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

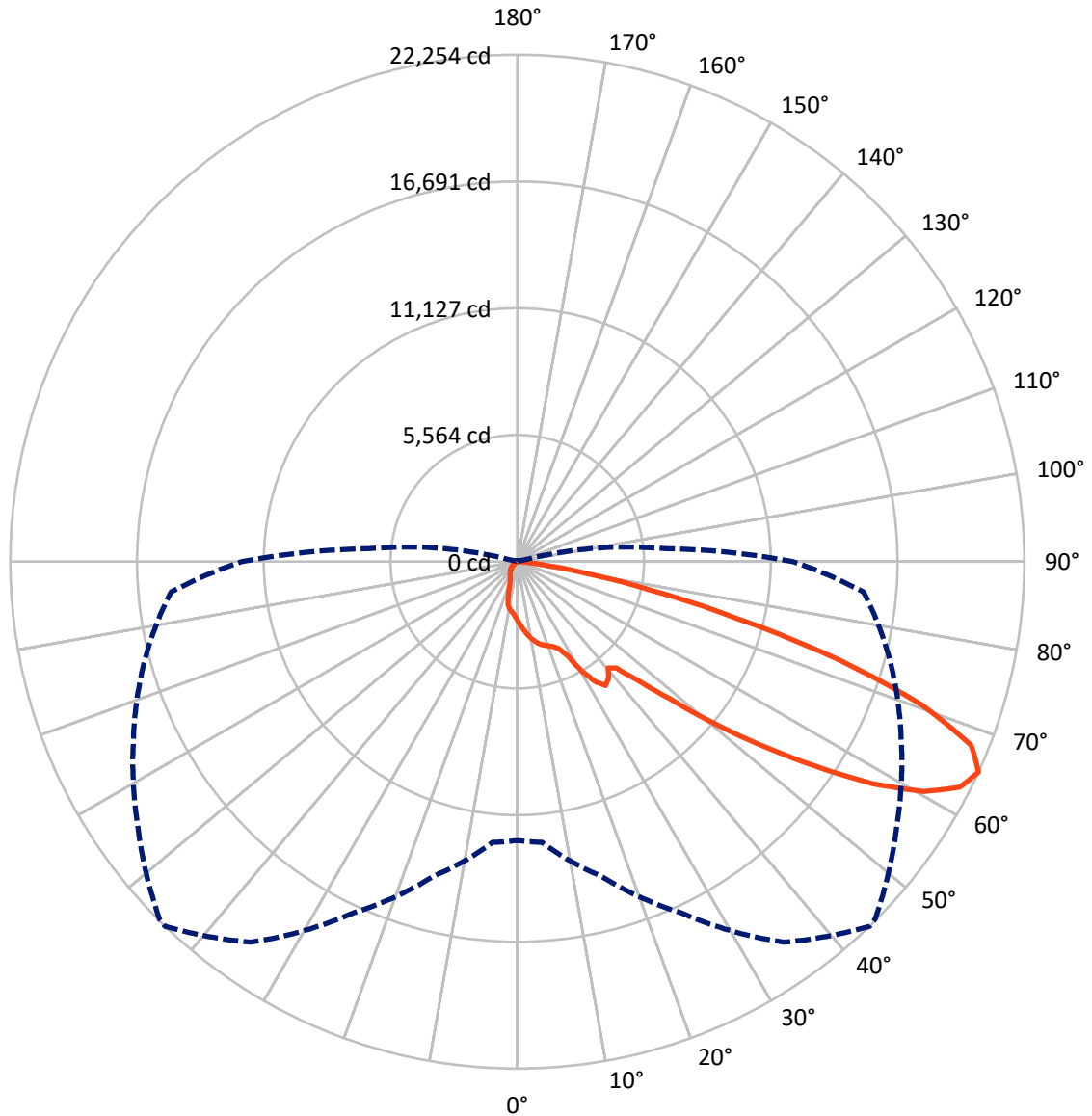
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2561.2	0.0	2561.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25236.8	0.0	25236.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	27798.0	0.0	27798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	0.9
10°-20°	774.4	2.8
20°-30°	1313.2	4.7
30°-40°	2183.4	7.9
40°-50°	3812.3	13.7
50°-60°	7447.8	26.8
60°-70°	8641.2	31.1
70°-80°	3146.7	11.3
80°-90°	221.7	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°	27798.0	100.0
0°-180°	27798.0	100.0

Coefficient of Utilization



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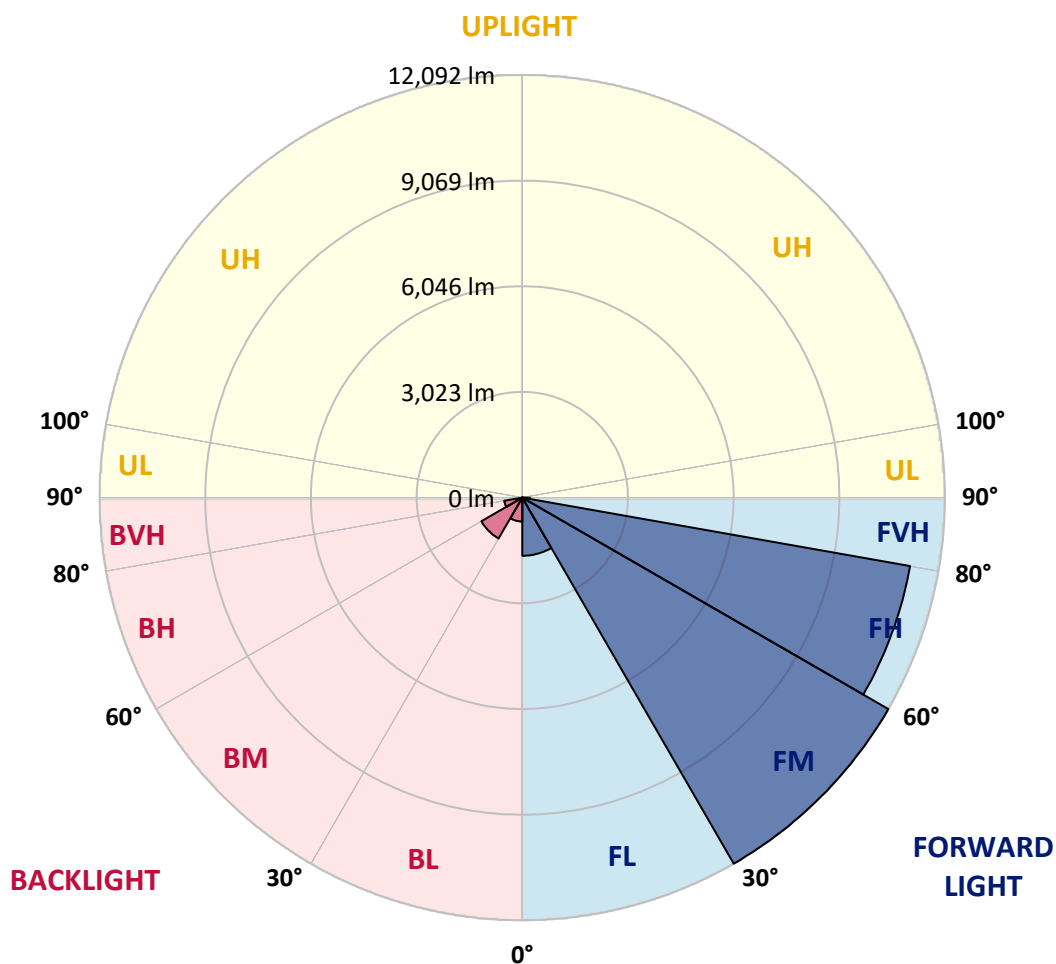
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.6	6.0			
FM (30°-60°)	12092.2	43.5			
FH (60°-80°)	11263.4	40.5			G4/12000
FVH (80°-90°)	218.7	0.8			G2/225
BL (0°-30°)	682.4	2.5	B2/1000		
BM (30°-60°)	1351.3	4.9	B2/2500		
BH (60°-80°)	524.5	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°	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2
2.5°	2912.2	2899.4	2893.0	2859.1	2833.6	2801.7	2801.7	2761.3	2714.6	2663.6	2616.9
5°	3237.1	3215.9	3188.3	3158.6	3099.1	3014.1	3014.1	2929.1	2831.4	2744.3	2648.8
7.5°	3549.4	3530.3	3483.5	3426.2	3328.5	3239.3	3232.9	3109.7	2992.9	2861.2	2725.2
10°	3823.4	3808.5	3768.2	3657.7	3555.8	3438.9	3436.8	3298.7	3162.8	3001.4	2833.6
12.5°	4014.6	4016.7	3963.6	3857.4	3725.7	3615.2	3606.7	3470.8	3328.5	3154.3	2948.3
15°	4150.5	4150.5	4095.3	3976.3	3857.4	3759.7	3751.2	3632.2	3485.7	3296.6	3073.6
17.5°	4188.7	4201.5	4142.0	4035.8	3940.2	3855.3	3853.1	3753.3	3636.5	3453.8	3201.0
20°	4173.9	4186.6	4139.9	4057.0	3991.2	3942.3	3936.0	3895.6	3787.3	3615.2	3337.0
22.5°	4142.0	4154.8	4120.8	4071.9	4040.1	4054.9	4044.3	4078.3	4020.9	3812.8	3498.4
25°	4148.4	4161.1	4135.6	4108.0	4135.6	4227.0	4254.6	4401.2	4350.2	4063.4	3672.6
27.5°	4348.1	4373.5	4337.4	4350.2	4447.9	4660.3	4713.4	4966.2	4741.0	4382.0	3944.5
30°	4792.0	4775.0	4707.0	4768.6	5108.5	5558.8	5543.9	5503.6	5151.0	4749.5	4267.3
32.5°	5195.6	5180.7	5176.5	5442.0	6058.0	6276.7	6266.1	5875.3	5518.4	5170.1	4586.0
35°	5359.1	5301.8	5289.0	5932.6	6962.8	6674.0	6608.1	6028.2	5964.5	5628.9	4910.9
37.5°	5851.9	5811.6	5614.0	6013.4	6601.7	6506.1	6455.2	6291.6	6440.3	6034.6	5278.4
40°	6867.2	6754.7	6576.2	6185.4	6089.8	6130.2	6181.2	6629.3	7003.2	6589.0	5769.1
42.5°	8129.0	8103.5	7772.1	7043.5	6327.7	6382.9	6448.8	7334.5	7812.5	7423.8	6569.9
45°	9643.5	9679.6	9201.6	8341.4	7402.5	7449.3	7544.8	8375.4	8908.5	8721.6	7829.5
47.5°	11019.9	10992.3	10830.8	9936.6	9069.9	8965.9	9120.9	9711.4	10425.1	10454.9	9392.8
50°	12404.8	12551.4	12311.3	11960.9	11317.3	11098.5	11041.1	11330.0	12417.5	12275.2	11270.5
52.5°	14395.1	14471.6	14021.2	13932.0	14078.6	13369.1	13311.8	13381.9	14354.7	13866.2	12676.7
55°	15646.2	15601.6	15433.8	16130.5	16710.4	15824.6	15752.4	15469.9	15962.7	14989.8	14029.7
57.5°	16041.3	16105.0	16495.8	17755.4	19127.6	18375.7	18244.0	17441.1	17122.4	16037.0	15274.5
60°	15865.0	15981.8	16825.1	18698.5	20601.7	20489.2	20376.6	19027.8	17955.1	16912.2	16147.5
62.5°	14609.6	14773.2	16122.0	18530.7	21100.9	21804.0	21663.8	20017.6	18509.5	17337.0	16300.4
65°	12243.4	12364.4	14301.6	17007.7	20391.4	22254.3	22203.3	20327.7	18596.6	16948.3	15253.2
67.5°	8728.0	9140.0	10934.9	14333.5	18292.8	21485.4	21572.5	19956.0	17778.8	15268.1	12632.1
70°	5486.6	5767.0	7054.2	10261.6	14664.8	18849.3	19136.1	18254.6	15429.5	11901.4	8456.1
72.5°	2616.9	2825.1	3742.7	6495.5	10350.8	14830.5	15057.8	14985.6	11931.1	7498.1	4362.9
75°	1166.1	1244.7	1786.4	3315.7	6682.4	9968.4	10556.8	10654.5	7455.6	3668.3	1697.2
77.5°	594.8	596.9	836.9	1605.8	3337.0	5947.5	6064.3	6406.3	4042.2	1616.4	590.5
80°	316.5	337.7	443.9	758.3	1731.1	2929.1	2914.3	3203.2	1792.7	792.3	197.5
82.5°	142.3	157.2	250.6	397.2	845.4	1110.9	1198.0	1310.6	768.9	505.5	87.1
85°	42.5	51.0	123.2	199.7	305.9	320.7	359.0	463.1	435.4	359.0	44.6
87.5°	6.4	6.4	51.0	55.2	44.6	57.4	59.5	65.8	140.2	131.7	23.4
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°	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2	2587.2
2.5°	2591.4	2576.5	2523.4	2478.8	2440.6	2417.2	2389.6	2372.6	2364.1	2357.8	2359.9
5°	2602.0	2565.9	2474.6	2402.4	2347.1	2287.7	2247.3	2223.9	2213.3	2196.3	2196.3
7.5°	2661.5	2604.2	2476.7	2366.3	2270.7	2190.0	2113.5	2085.9	2066.8	2062.5	2058.3
10°	2746.5	2674.3	2500.1	2347.1	2211.2	2100.7	1992.4	1896.8	1822.5	1777.9	1771.5
12.5°	2852.7	2748.6	2536.2	2334.4	2160.2	1964.8	1678.0	1484.8	1355.2	1314.8	1321.2
15°	2950.4	2837.8	2572.3	2323.8	2066.8	1629.2	1304.2	1083.3	1017.4	1011.1	1013.2
17.5°	3067.2	2933.4	2614.8	2308.9	1809.7	1244.7	968.6	909.1	921.9	943.1	941.0
20°	3188.3	3035.4	2665.8	2219.7	1444.4	936.7	856.0	862.4	881.5	900.6	904.9
22.5°	3317.9	3152.2	2725.2	2005.2	1102.4	815.7	811.4	819.9	839.0	860.3	864.5
25°	3496.3	3298.7	2769.8	1724.8	834.8	754.1	762.6	777.4	794.4	817.8	822.0
27.5°	3725.7	3496.3	2793.2	1359.4	722.2	698.8	701.0	722.2	743.4	764.7	764.7
30°	4023.1	3732.1	2746.5	1028.1	667.0	645.7	637.2	650.0	677.6	698.8	701.0
32.5°	4288.6	3955.1	2623.3	785.9	626.6	596.9	575.6	577.8	588.4	601.1	603.2
35°	4554.1	4171.8	2413.0	660.6	584.1	550.1	518.3	501.3	492.8	486.4	492.8
37.5°	4893.9	4441.5	2132.6	601.1	548.0	505.5	460.9	424.8	395.1	376.0	380.2
40°	5331.5	4815.4	1801.2	562.9	514.0	463.1	403.6	356.9	305.9	288.9	280.4
42.5°	6053.7	5382.5	1452.9	531.0	480.0	418.4	344.1	280.4	233.7	216.7	220.9
45°	7194.4	6098.3	1119.4	497.0	446.1	369.6	288.9	220.9	182.7	174.2	178.4
47.5°	8706.7	7024.4	862.4	458.8	403.6	316.5	227.3	174.2	150.8	148.7	146.6
50°	10129.9	7886.8	720.1	416.3	352.6	263.4	186.9	146.6	131.7	129.6	129.6
52.5°	11417.1	8504.9	586.3	367.5	297.4	216.7	157.2	129.6	116.8	110.5	110.5
55°	12562.0	8908.5	475.8	308.0	233.7	172.1	135.9	116.8	102.0	93.5	91.3
57.5°	13426.5	8957.4	356.9	246.4	174.2	133.8	116.8	102.0	85.0	74.3	70.1
60°	13796.1	8534.7	263.4	186.9	129.6	106.2	93.5	82.8	63.7	53.1	51.0
62.5°	13424.4	7712.6	195.4	142.3	99.8	78.6	65.8	61.6	44.6	31.9	29.7
65°	12092.6	6525.3	155.1	108.3	74.3	57.4	42.5	40.4	27.6	14.9	12.7
67.5°	9688.1	5110.6	123.2	80.7	53.1	38.2	27.6	25.5	14.9	4.2	4.2
70°	6300.1	3266.9	99.8	59.5	34.0	25.5	17.0	12.7	8.5	2.1	0.0
72.5°	3116.1	1527.2	80.7	46.7	23.4	12.7	6.4	4.2	6.4	0.0	0.0
75°	1208.6	543.8	59.5	31.9	12.7	6.4	4.2	0.0	2.1	0.0	0.0
77.5°	401.5	180.5	36.1	17.0	8.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	148.7	70.1	19.1	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	27.6	12.7	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.7	17.0	8.5	6.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	12.7	8.5	6.4	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)