

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: P951292

Luminaire Tested: **GALN-SB5C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26817 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.5
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



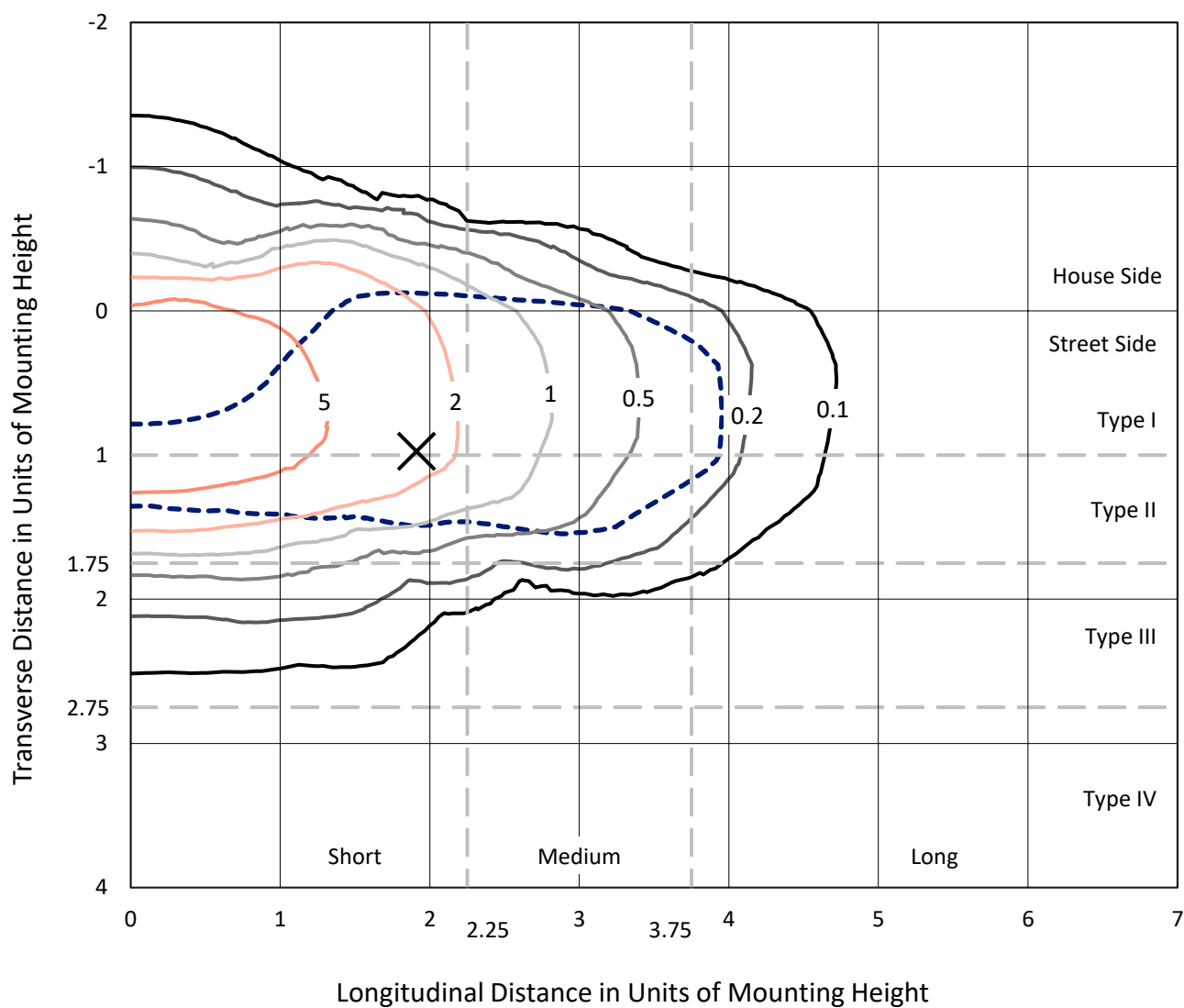
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

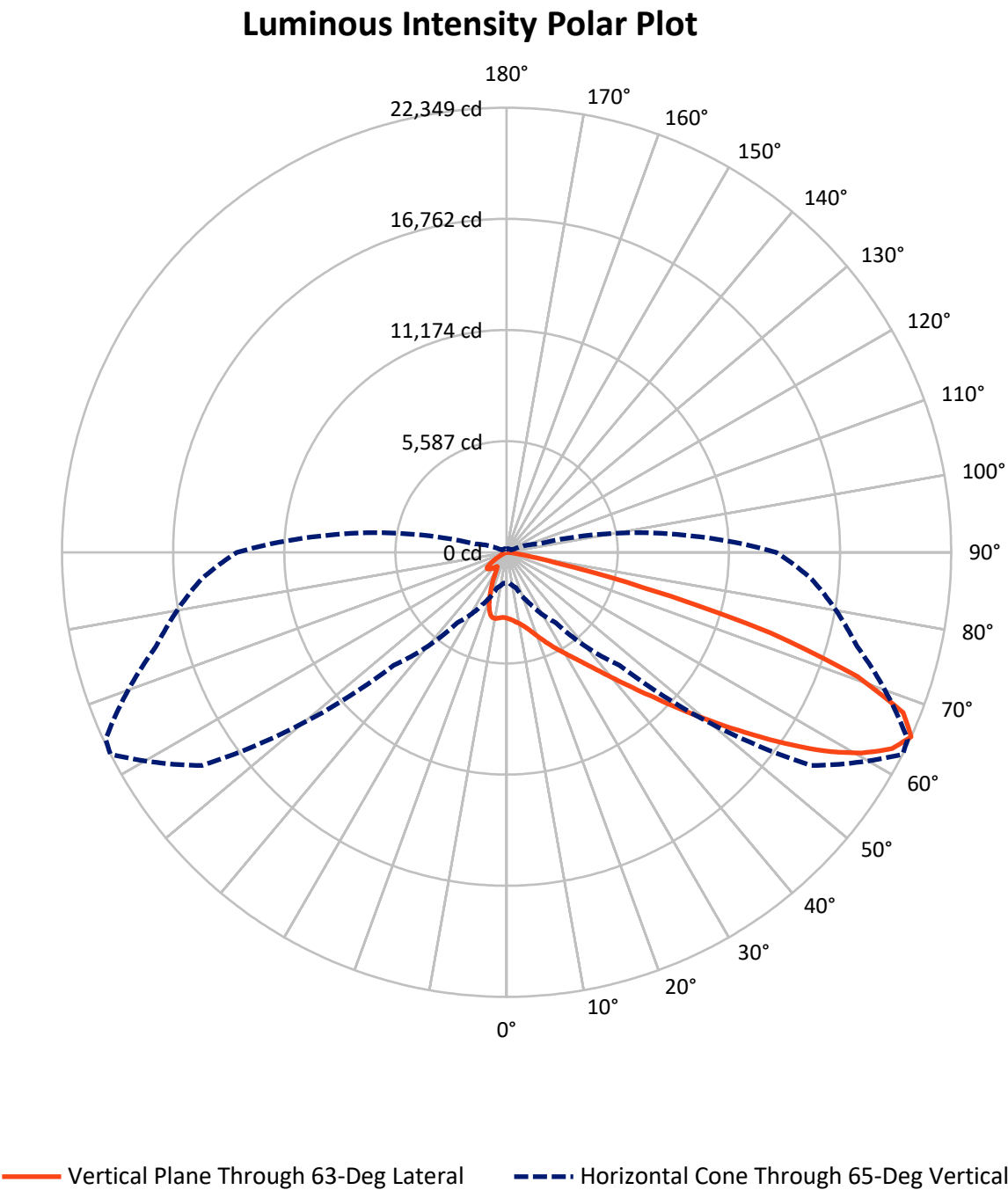
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3941.9	0.0	3941.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22875.1	0.0	22875.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	26817.0	0.0	26817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	1.2
10°-20°	865.2	3.2
20°-30°	1506.6	5.6
30°-40°	2715.5	10.1
40°-50°	5385.7	20.1
50°-60°	7336.2	27.4
60°-70°	5855.7	21.8
70°-80°	2649.8	9.9
80°-90°	190.5	0.7
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°	26817.0	100.0
0°-180°	26817.0	100.0

Coefficient of Utilization



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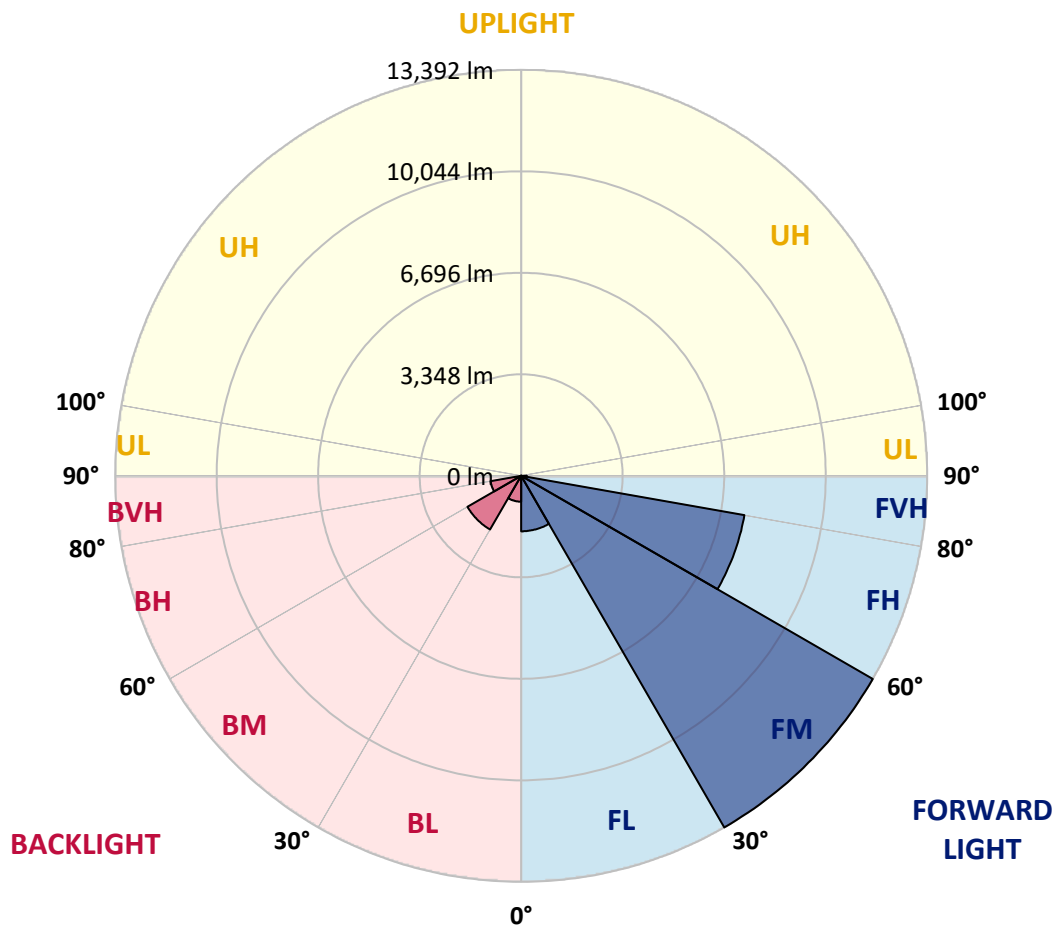
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1830.6	6.8			
FM	(30°-60°)	13391.7	49.9			
FH	(60°-80°)	7476.4	27.9			G3/7500
FVH	(80°-90°)	176.3	0.7			G2/225
BL	(0°-30°)	853.1	3.2	B2/1000		
BM	(30°-60°)	2045.6	7.6	B2/2500		
BH	(60°-80°)	1029.1	3.8	B3/2500		G3/2500
BVH	(80°-90°)	14.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7
2.5°	3387.2	3378.0	3390.9	3385.4	3381.7	3374.3	3370.6	3366.9	3359.5	3354.0	3331.9
5°	3396.4	3390.9	3403.8	3414.9	3426.0	3437.0	3442.6	3449.9	3442.6	3427.8	3405.7
7.5°	3318.9	3315.3	3342.9	3376.1	3426.0	3468.4	3514.5	3540.3	3542.2	3536.6	3512.7
10°	3313.4	3304.2	3331.9	3372.5	3437.0	3512.7	3593.8	3649.2	3656.6	3680.5	3654.7
12.5°	3400.1	3390.9	3429.6	3473.9	3540.3	3619.7	3719.3	3796.8	3807.8	3841.1	3822.6
15°	3545.9	3533.0	3577.2	3634.4	3719.3	3809.7	3914.8	3985.0	3994.2	4034.8	4001.6
17.5°	3715.6	3702.7	3754.3	3815.2	3907.5	4031.1	4152.8	4230.3	4241.4	4267.2	4206.3
20°	3933.3	3916.7	3957.3	4012.6	4110.4	4258.0	4403.7	4514.4	4512.6	4512.6	4413.0
22.5°	4186.0	4160.2	4195.3	4239.5	4331.8	4510.7	4704.5	4835.4	4835.4	4783.8	4619.6
25°	4457.2	4431.4	4470.2	4510.7	4591.9	4794.9	5021.8	5184.1	5191.5	5103.0	4841.0
27.5°	4796.7	4763.5	4793.0	4841.0	4888.9	5095.6	5364.9	5553.1	5556.8	5420.3	5051.3
30°	5449.8	5355.7	5263.5	5211.8	5233.9	5438.7	5726.5	5935.0	5953.4	5765.3	5280.1
32.5°	6645.3	6626.8	6302.1	5877.8	5656.4	5807.7	6130.6	6381.5	6392.5	6150.8	5577.1
35°	8503.1	8480.9	7958.8	7150.8	6429.4	6302.1	6621.3	6918.3	6910.9	6637.9	5962.7
37.5°	10720.6	10700.3	10012.2	8931.1	7763.3	7049.3	7254.1	7565.9	7612.0	7254.1	6460.8
40°	12615.3	12539.7	12104.3	11061.9	9534.4	8289.1	8154.4	8361.0	8409.0	7984.7	7093.6
42.5°	14050.6	13986.1	13764.7	13113.4	11678.1	10122.9	9215.2	9294.5	9348.0	8838.8	7820.5
45°	14794.1	14779.4	14867.9	14807.1	13862.5	12373.6	10731.7	10401.5	10421.8	9785.3	8645.1
47.5°	14899.3	14891.9	15295.9	15867.9	15740.6	14912.2	12678.1	11781.4	11709.5	10853.5	9541.7
50°	14279.4	14264.7	15039.5	16111.4	16995.1	17044.9	14888.2	13336.7	13178.0	11958.5	10477.1
52.5°	12299.9	12296.2	13569.1	15353.1	17436.0	18911.9	17072.6	15045.0	14779.4	13128.2	11466.0
55°	9464.3	9532.5	10991.8	13100.5	16631.6	19810.4	19033.7	16941.6	16533.9	14305.2	12377.3
57.5°	6704.3	6803.9	8246.6	10124.7	14137.4	19279.1	20360.2	18841.8	18402.7	15478.6	13301.6
60°	3601.2	3689.8	5134.3	7375.9	10517.7	17297.6	21059.4	20491.1	20076.0	16592.9	14135.5
62.5°	2145.6	2175.1	2772.9	4761.6	7113.9	13214.9	20762.3	21747.5	21406.2	17528.3	14860.6
65°	1540.5	1546.0	1846.7	2907.5	4318.9	8028.9	18679.5	22348.9	22243.8	18233.0	15397.4
67.5°	1297.0	1293.3	1418.7	1931.6	2942.6	4021.9	14316.3	21498.5	21944.9	18679.5	15701.8
70°	1112.5	1118.0	1265.6	1415.0	2212.0	2276.6	7117.6	18718.2	19670.2	18797.5	15683.4
72.5°	828.4	846.8	983.3	1289.6	1669.6	1566.3	2457.4	13879.1	15600.4	17710.9	14869.8
75°	584.8	594.1	691.8	1084.8	1245.3	1140.1	1254.5	7174.8	9381.2	13578.4	12170.7
77.5°	450.2	466.8	523.9	758.2	1226.8	800.7	767.5	2483.2	3815.2	8202.4	8344.4
80°	243.5	273.0	378.2	547.9	861.6	566.4	380.0	988.9	1293.3	3835.5	3217.5
82.5°	125.5	140.2	263.8	394.8	490.7	494.4	188.2	411.4	533.2	1184.4	440.9
85°	49.8	60.9	177.1	217.7	252.7	243.5	84.9	166.0	191.9	328.4	134.7
87.5°	11.1	18.4	64.6	49.8	48.0	51.7	20.3	38.7	36.9	38.7	24.0
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°	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7
2.5°	3330.0	3322.6	3302.3	3280.2	3254.4	3239.6	3230.4	3228.5	3215.6	3206.4	3215.6
5°	3385.4	3378.0	3339.2	3293.1	3243.3	3204.6	3167.7	3134.5	3086.5	3077.3	3073.6
7.5°	3496.1	3475.8	3413.0	3350.3	3256.2	3143.7	3007.2	2850.3	2710.1	2667.7	2647.4
10°	3632.6	3604.9	3525.6	3414.9	3206.4	2900.2	2569.9	2263.7	2020.1	1951.9	1926.1
12.5°	3787.5	3763.6	3658.4	3453.6	2997.9	2442.6	1937.1	1557.1	1320.9	1261.9	1245.3
15°	3972.0	3937.0	3791.2	3394.6	2625.3	1856.0	1330.2	1105.1	1020.2	1009.2	998.1
17.5°	4167.6	4110.4	3909.3	3182.4	2123.5	1319.1	1027.6	963.0	926.1	915.1	909.5
20°	4346.6	4272.8	3979.4	2861.4	1586.6	1027.6	920.6	878.2	845.0	832.0	824.7
22.5°	4525.5	4420.3	3979.4	2424.2	1190.0	911.4	845.0	806.2	767.5	750.9	741.6
25°	4711.8	4571.6	3909.3	1937.1	957.5	835.7	773.0	730.6	697.4	677.1	669.7
27.5°	4892.6	4698.9	3748.8	1475.9	852.3	769.3	706.6	666.0	634.6	619.9	619.9
30°	5064.2	4824.4	3523.7	1119.8	784.1	704.7	645.7	610.7	579.3	564.5	566.4
32.5°	5296.7	4983.0	3283.9	918.8	725.0	643.9	590.4	557.2	529.5	518.4	518.4
35°	5619.5	5217.3	3077.3	902.1	675.2	594.1	540.6	509.2	481.5	472.3	472.3
37.5°	6077.1	5595.5	2968.4	1012.8	634.6	549.8	500.0	466.8	440.9	433.5	431.7
40°	6641.6	6108.4	3027.5	1123.5	607.0	511.0	463.1	429.9	407.7	398.5	396.7
42.5°	7311.3	6741.2	3354.0	1208.4	588.5	477.8	428.0	391.1	376.4	372.7	372.7
45°	8080.6	7436.7	3854.0	1298.8	559.0	446.5	393.0	365.3	354.2	352.4	350.5
47.5°	8955.1	8200.5	4433.3	1411.3	529.5	416.9	365.3	346.8	337.6	333.9	333.9
50°	9822.2	8969.8	5029.2	1474.1	505.5	389.3	343.1	328.4	321.0	319.2	319.2
52.5°	10729.9	9761.3	5510.7	1415.0	485.2	367.1	324.7	313.6	306.3	304.4	304.4
55°	11595.1	10401.5	5593.7	1201.0	444.6	345.0	304.4	298.9	289.6	289.6	287.8
57.5°	12340.4	10722.5	5007.0	881.9	404.0	311.8	284.1	278.6	271.2	269.4	267.5
60°	13024.9	10630.2	3865.0	594.1	359.8	278.6	258.3	254.6	247.2	238.0	236.1
62.5°	13410.5	10224.4	2643.7	387.4	315.5	243.5	228.8	226.9	210.3	191.9	188.2
65°	13556.2	9390.5	1649.3	282.3	263.8	208.5	197.4	193.7	169.7	149.4	147.6
67.5°	13428.9	8017.9	832.0	223.2	208.5	173.4	162.3	162.3	145.7	127.3	125.5
70°	12919.7	6010.6	350.5	179.0	160.5	132.8	132.8	140.2	123.6	103.3	101.5
72.5°	11814.6	4044.0	186.3	136.5	119.9	94.1	108.8	114.4	97.8	77.5	77.5
75°	9392.3	2466.6	129.1	101.5	75.6	66.4	83.0	86.7	66.4	51.7	49.8
77.5°	6423.9	1416.9	86.7	64.6	48.0	38.7	57.2	53.5	35.1	24.0	25.8
80°	2820.8	590.4	49.8	29.5	18.4	14.8	20.3	14.8	11.1	7.4	7.4
82.5°	330.2	138.4	18.4	11.1	7.4	3.7	1.8	0.0	0.0	0.0	0.0
85°	68.3	16.6	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.7	1.8	0.0	0.0	0.0	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)