

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: P951275

Luminaire Tested: **GALN-SB5C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24073 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

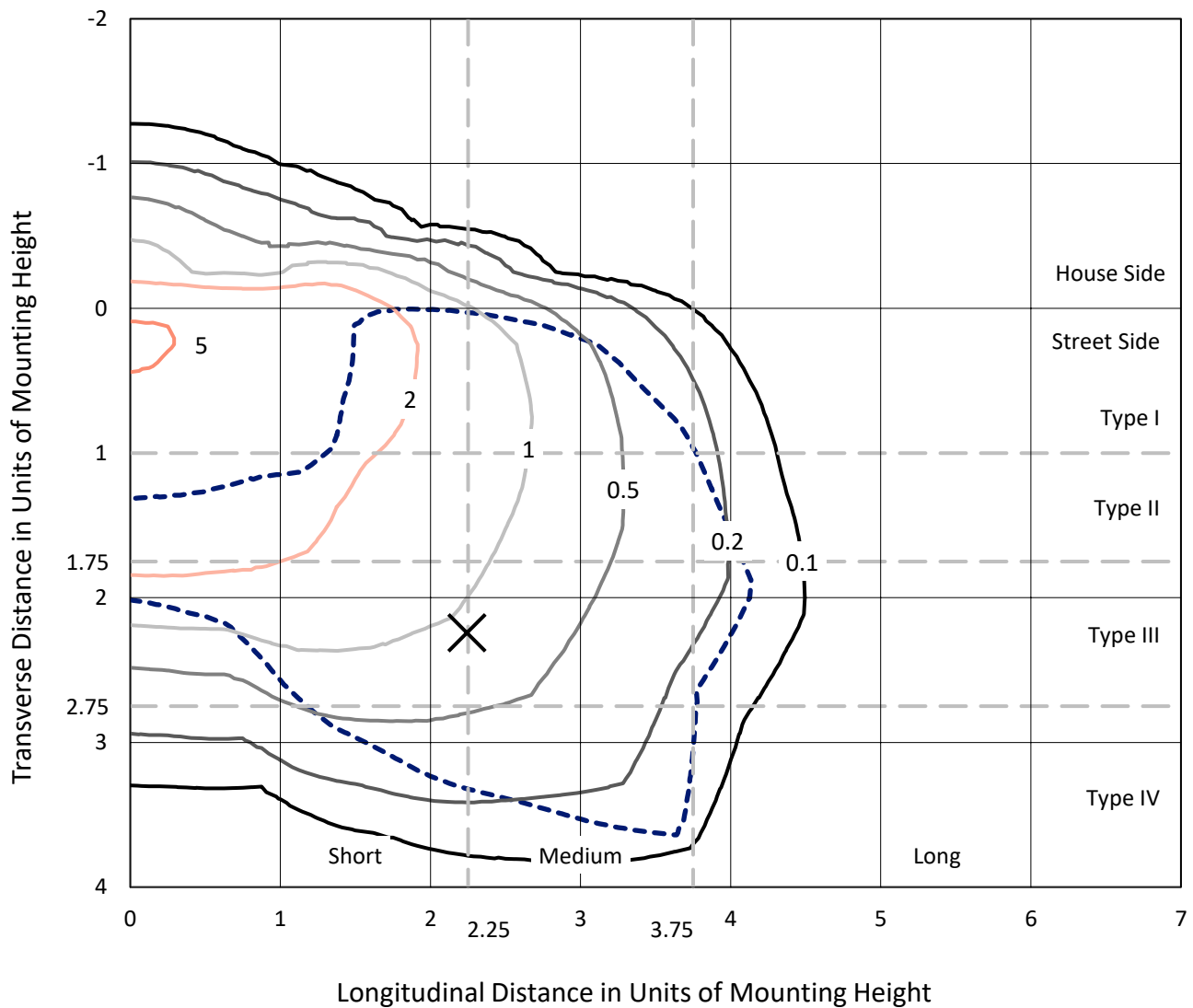


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Iso-Footcandle Lines of Horizontal Illumination

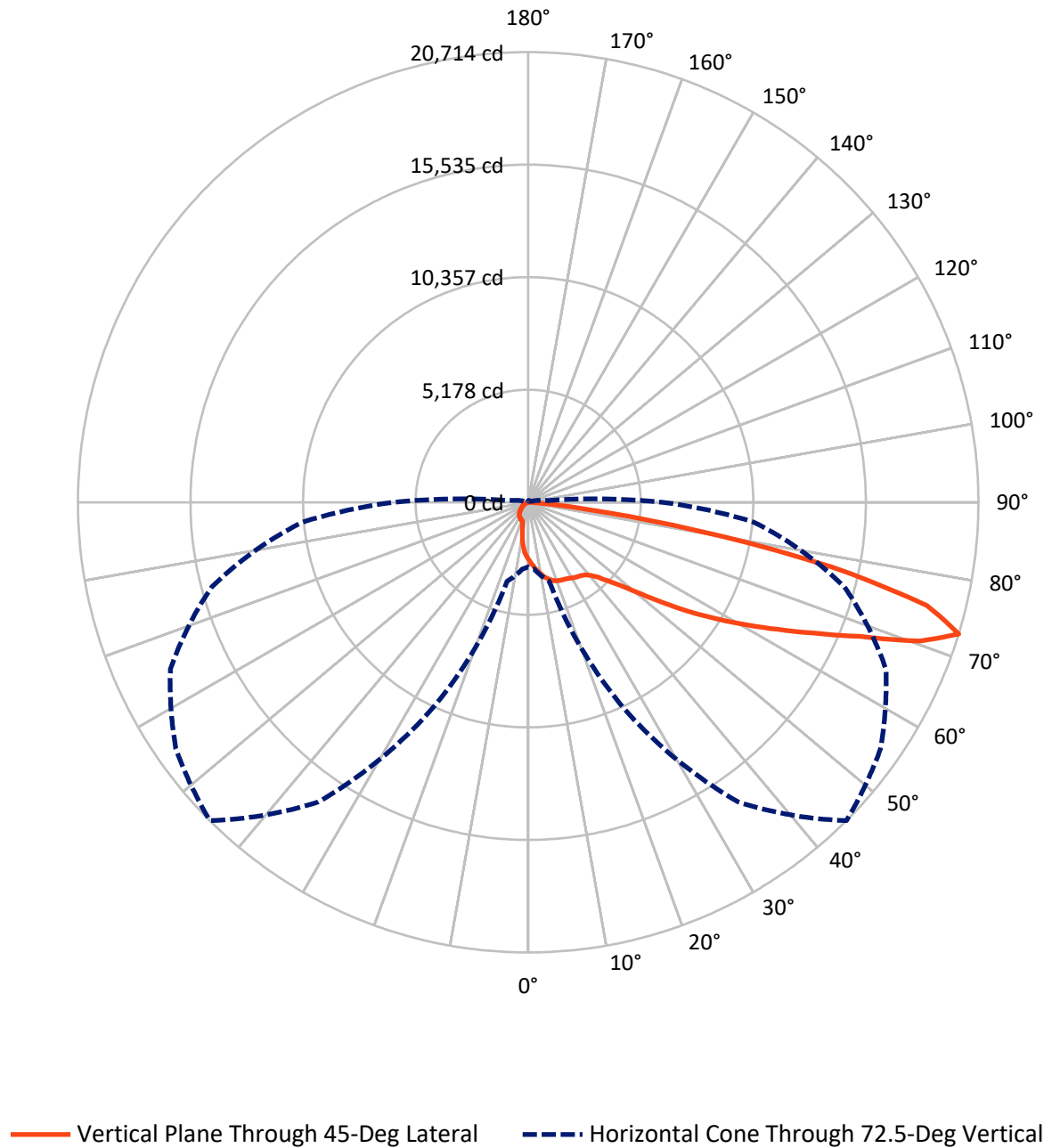
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2529.4	0.0	2529.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21543.6	0.0	21543.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	24073.0	0.0	24073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	1.0
10°-20°	726.2	3.0
20°-30°	1192.6	5.0
30°-40°	1691.3	7.0
40°-50°	2795.6	11.6
50°-60°	5021.9	20.9
60°-70°	6973.2	29.0
70°-80°	5058.1	21.0
80°-90°	365.7	1.5
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°	24073.0	100.0
0°-180°	24073.0	100.0

Coefficient of Utilization



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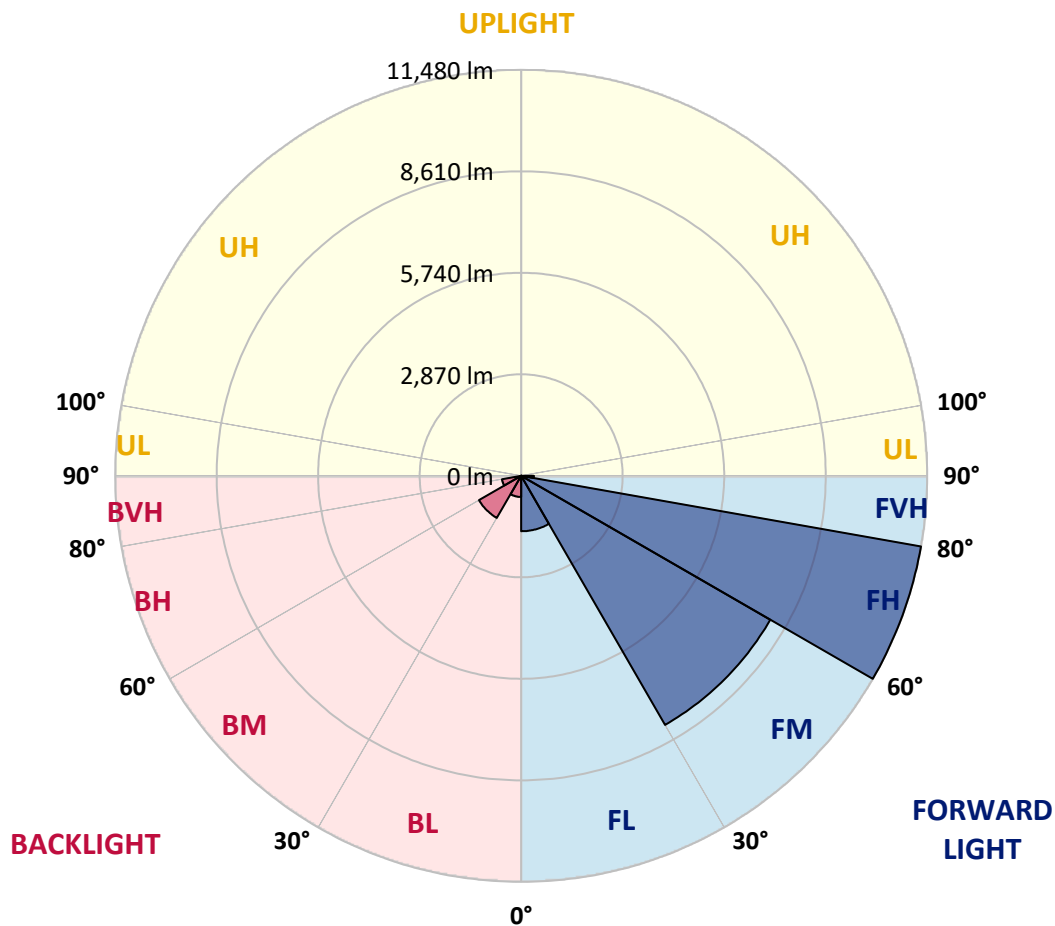
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1568.1	6.5			
FM	(30°-60°)	8133.1	33.8			
FH	(60°-80°)	11479.7	47.7			G4/12000
FVH	(80°-90°)	362.6	1.5			G3/500
BL	(0°-30°)	599.1	2.5	B2/1000		
BM	(30°-60°)	1375.6	5.7	B2/2500		
BH	(60°-80°)	551.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2
2.5°	2880.4	2885.4	2882.1	2862.4	2829.5	2811.4	2801.6	2768.7	2747.3	2709.5	2670.1
5°	3145.0	3164.7	3153.2	3113.8	3051.3	3007.0	2993.8	2926.4	2865.6	2795.0	2712.8
7.5°	3426.0	3435.8	3414.5	3363.5	3279.7	3204.1	3192.6	3099.0	3002.0	2893.6	2781.8
10°	3669.1	3680.6	3647.8	3573.8	3478.5	3384.9	3368.4	3264.9	3149.9	3016.8	2873.9
12.5°	3872.9	3884.4	3841.7	3752.9	3647.8	3550.8	3534.4	3426.0	3299.4	3151.6	2974.1
15°	4027.3	4048.7	3991.2	3895.9	3782.5	3685.6	3677.4	3570.6	3447.3	3283.0	3094.0
17.5°	4117.7	4139.1	4084.9	3969.8	3872.9	3790.7	3780.9	3692.1	3577.1	3419.4	3210.7
20°	4132.5	4152.2	4094.7	3994.5	3914.0	3848.2	3843.3	3779.2	3695.4	3544.3	3337.2
22.5°	4088.1	4112.8	4060.2	3979.7	3923.8	3889.3	3882.8	3846.6	3799.0	3670.8	3455.5
25°	4042.1	4061.9	4022.4	3951.8	3922.2	3918.9	3923.8	3917.3	3907.4	3799.0	3593.6
27.5°	4038.9	4060.2	4015.8	3948.5	3932.0	3966.6	3971.5	4002.7	4010.9	3915.6	3726.7
30°	4066.8	4081.6	4038.9	3968.2	3960.0	4038.9	4040.5	4096.4	4109.5	4014.2	3858.1
32.5°	4127.6	4144.0	4101.3	3997.8	3986.3	4096.4	4101.3	4175.2	4196.6	4119.4	3996.1
35°	4270.5	4290.3	4241.0	4079.9	4038.9	4150.6	4165.4	4252.5	4295.2	4231.1	4139.1
37.5°	4627.1	4569.6	4502.2	4245.9	4158.8	4236.0	4260.7	4362.6	4438.1	4364.2	4310.0
40°	5512.8	5332.0	5121.7	4528.5	4369.1	4418.4	4438.1	4540.0	4643.5	4571.2	4544.9
42.5°	6842.1	6628.4	6290.0	5179.2	4686.3	4710.9	4725.7	4814.4	4960.7	4903.1	4909.7
45°	8026.8	7949.5	7604.5	6290.0	5279.4	5157.8	5175.9	5221.9	5437.2	5415.8	5458.5
47.5°	8937.1	8892.7	8626.5	7565.0	6281.7	5705.0	5755.9	5777.3	6087.9	6163.4	6278.5
50°	9637.0	9620.6	9382.4	8698.8	7591.3	6511.8	6529.9	6483.9	6948.9	7136.2	7354.7
52.5°	10297.6	10353.5	10177.6	9752.1	8989.6	7568.3	7565.0	7348.1	7975.8	8258.4	8631.4
55°	10894.1	10913.8	10931.8	10826.7	10396.2	8771.1	8739.9	8385.0	9167.1	9459.6	9863.8
57.5°	11454.4	11462.6	11623.6	11838.9	11860.2	10062.6	10005.1	9579.5	10468.5	10677.2	10925.3
60°	11830.6	11868.4	12208.6	12806.7	13067.9	11395.2	11364.0	10930.2	11792.9	11889.8	11843.8
62.5°	11288.4	11518.4	12376.2	13562.5	14208.3	12872.4	12857.6	12450.1	13186.2	13107.4	12713.0
65°	9137.5	9527.0	11035.4	14073.5	15327.3	14522.1	14543.5	14109.7	14617.4	14361.1	13419.6
67.5°	6391.8	6802.6	8587.1	14114.6	16577.7	16459.4	16582.6	15902.4	16137.3	15562.2	13587.2
70°	4420.1	4632.0	5793.7	13230.6	17552.1	19127.9	19124.6	18104.2	17649.0	16109.4	12732.7
72.5°	2972.5	3082.5	3762.8	10496.4	16835.7	20713.5	20618.2	19786.8	18158.4	15066.0	10402.8
75°	1253.7	1334.2	1741.7	5898.9	13319.3	18950.4	18692.4	17486.4	16134.0	11863.5	6490.4
77.5°	397.6	432.1	686.8	2111.4	7336.6	14244.4	13971.7	10920.3	10813.5	5951.5	2372.7
80°	189.0	220.2	386.1	847.9	2887.0	7747.4	7709.6	4954.1	4651.7	1607.0	476.5
82.5°	82.2	96.9	213.6	453.5	1291.5	2763.8	2819.6	1685.9	1395.0	609.6	146.2
85°	26.3	34.5	98.6	208.7	545.5	686.8	678.6	400.9	562.0	331.9	50.9
87.5°	0.0	0.0	32.9	47.7	55.9	39.4	44.4	34.5	156.1	92.0	18.1
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°	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2	2637.2
2.5°	2650.4	2624.1	2578.1	2535.4	2497.6	2459.8	2436.8	2403.9	2400.6	2400.6	2408.9
5°	2668.5	2625.7	2543.6	2456.5	2356.3	2261.0	2165.7	2073.6	2044.1	2022.7	2032.6
7.5°	2721.0	2653.7	2523.9	2357.9	2167.3	1958.6	1812.4	1654.6	1593.9	1561.0	1565.9
10°	2796.6	2704.6	2507.4	2216.6	1907.7	1623.4	1414.7	1243.9	1178.1	1150.2	1150.2
12.5°	2880.4	2767.1	2477.9	2040.8	1623.4	1283.3	1079.5	1000.7	990.8	990.8	990.8
15°	2980.7	2842.6	2426.9	1833.8	1326.0	1015.5	943.2	946.5	956.3	962.9	962.9
17.5°	3084.2	2923.2	2346.4	1602.1	1063.1	913.6	915.2	920.2	928.4	934.9	934.9
20°	3195.9	3003.7	2239.6	1355.6	911.9	884.0	888.9	893.9	900.4	903.7	905.4
22.5°	3315.9	3079.3	2113.1	1114.1	861.0	859.4	861.0	865.9	874.2	874.2	877.4
25°	3444.0	3163.1	1968.5	938.2	834.7	834.7	838.0	841.3	847.9	847.9	849.5
27.5°	3575.5	3240.3	1815.7	846.2	811.7	810.1	810.1	815.0	818.3	819.9	821.6
30°	3720.1	3330.7	1662.9	826.5	793.6	785.4	780.5	783.8	787.1	788.7	792.0
32.5°	3868.0	3417.7	1526.5	834.7	775.6	760.8	744.3	741.1	741.1	747.6	752.6
35°	4032.3	3513.0	1421.3	862.7	765.7	724.6	698.3	683.5	685.2	695.1	700.0
37.5°	4229.5	3628.1	1344.1	887.3	759.1	683.5	640.8	622.8	611.3	622.8	619.5
40°	4487.4	3797.3	1288.2	907.0	750.9	635.9	578.4	548.8	527.4	534.0	530.7
42.5°	4867.0	4063.5	1266.9	908.7	732.8	580.0	514.3	474.9	443.6	445.3	438.7
45°	5399.4	4484.1	1377.0	887.3	693.4	519.2	446.9	394.4	374.6	369.7	363.1
47.5°	6128.9	5097.0	1631.6	842.9	635.9	460.1	381.2	336.8	322.1	313.8	308.9
50°	7106.6	5884.1	1914.3	793.6	578.4	404.2	327.0	299.1	289.2	281.0	279.3
52.5°	8240.4	6682.7	2145.9	744.3	520.9	354.9	292.5	276.0	267.8	261.3	259.6
55°	9280.5	7233.1	2132.8	691.8	465.0	315.5	267.8	258.0	248.1	241.5	238.3
57.5°	9927.9	7310.4	1758.2	634.3	400.9	284.3	244.8	238.3	226.8	218.5	216.9
60°	10225.3	6870.0	1232.4	558.7	336.8	254.7	220.2	216.9	202.1	190.6	187.3
62.5°	10279.5	6051.7	821.6	465.0	281.0	226.8	195.5	190.6	170.9	151.2	141.3
65°	10059.3	4881.8	568.5	363.1	239.9	197.2	167.6	157.7	136.4	116.7	110.1
67.5°	9362.6	3427.6	396.0	261.3	203.8	156.1	133.1	129.8	113.4	96.9	92.0
70°	8085.9	1953.7	264.5	195.5	161.0	106.8	105.2	108.4	92.0	78.9	72.3
72.5°	6199.6	893.9	164.3	143.0	110.1	72.3	83.8	85.4	70.7	59.2	52.6
75°	3649.4	382.9	103.5	92.0	55.9	47.7	60.8	62.4	47.7	37.8	32.9
77.5°	1242.2	144.6	65.7	54.2	27.9	26.3	39.4	39.4	26.3	14.8	11.5
80°	282.6	54.2	32.9	21.4	13.1	11.5	13.1	11.5	6.6	1.6	0.0
82.5°	80.5	21.4	13.1	8.2	4.9	4.9	1.6	0.0	0.0	0.0	0.0
85°	23.0	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	1.6	0.0	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)