

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: P953774

Luminaire Tested: **GALN-SB7B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953774
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-SB7B-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 450mA 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: 25482 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 256.7
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



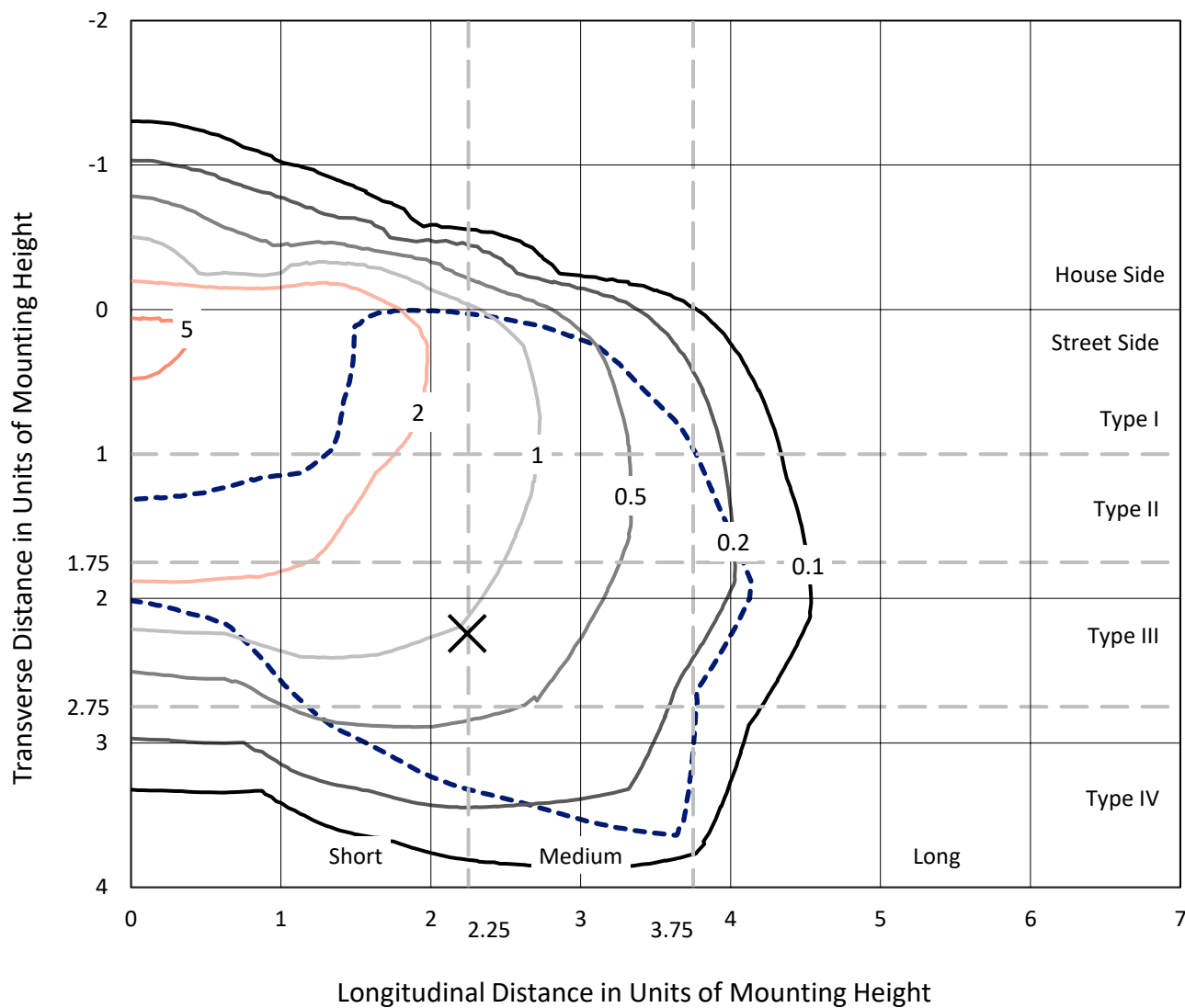
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

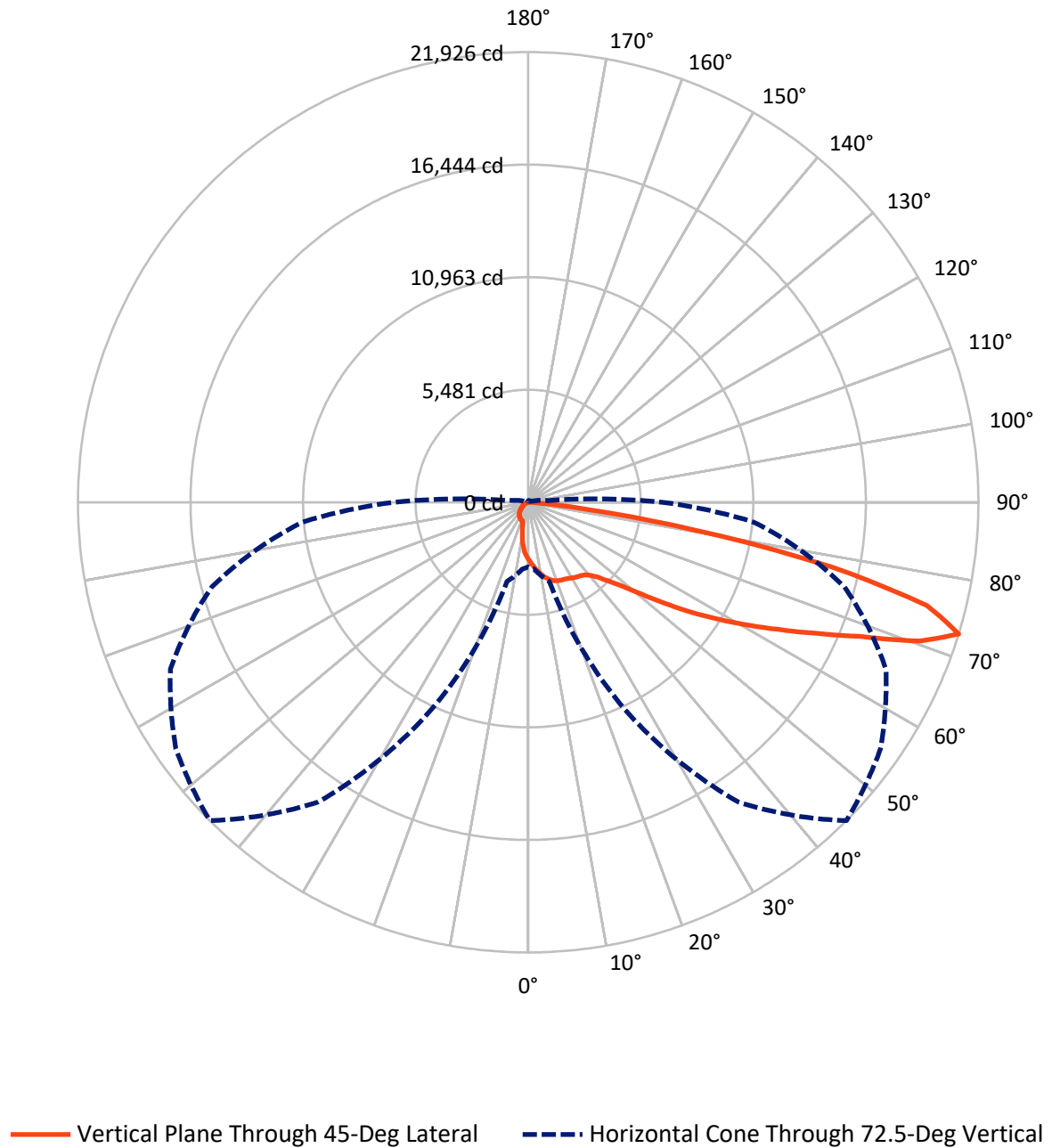


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.4	0.0	2677.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22804.5	0.0	22804.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	25482.0	0.0	25482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	1.0
10°-20°	768.7	3.0
20°-30°	1262.4	5.0
30°-40°	1790.3	7.0
40°-50°	2959.2	11.6
50°-60°	5315.8	20.9
60°-70°	7381.3	29.0
70°-80°	5354.2	21.0
80°-90°	387.1	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°	25482.0	100.0
0°-180°	25482.0	100.0

Coefficient of Utilization



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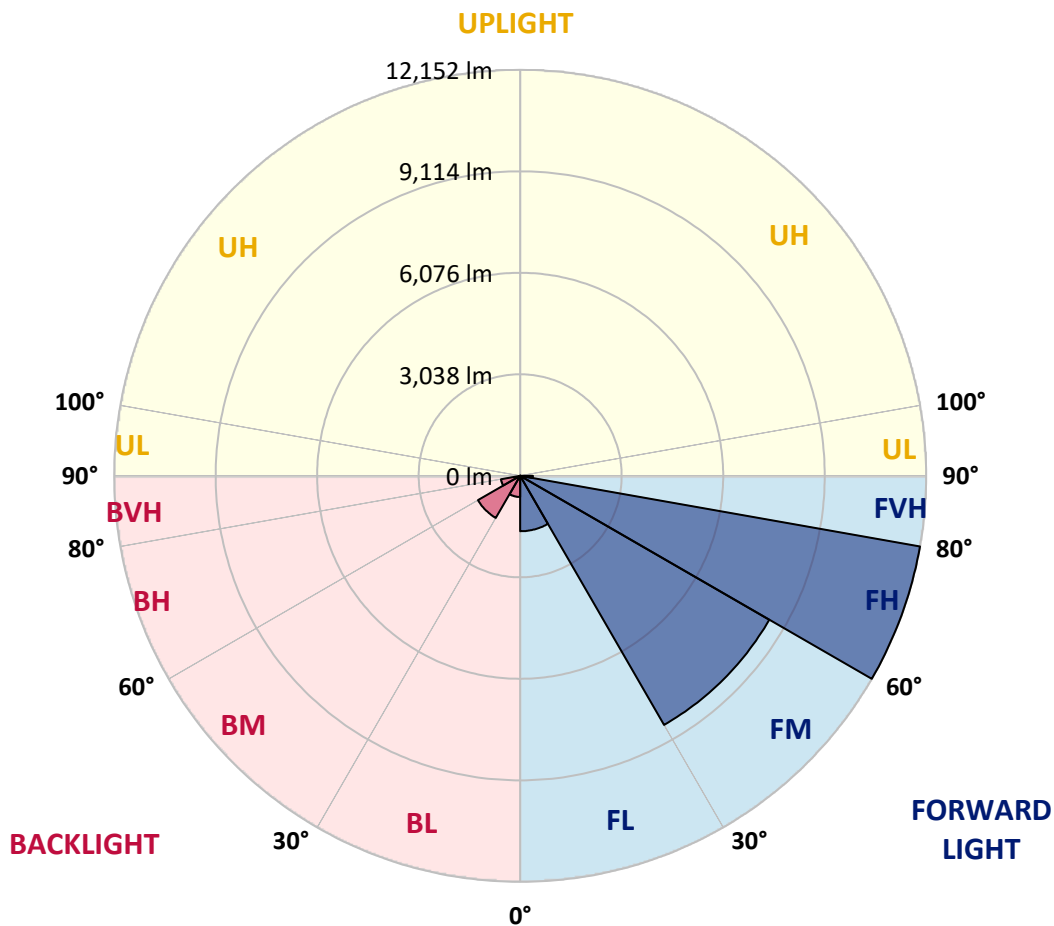
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1659.9	6.5			
FM	(30°-60°)	8609.2	33.8			
FH	(60°-80°)	12151.6	47.7			G5
FVH	(80°-90°)	383.8	1.5			G3/500
BL	(0°-30°)	634.2	2.5	B2/1000		
BM	(30°-60°)	1456.2	5.7	B2/2500		
BH	(60°-80°)	583.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.3	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6
2.5°	3049.0	3054.2	3050.8	3029.9	2995.1	2976.0	2965.5	2930.8	2908.1	2868.1	2826.4
5°	3329.1	3349.9	3337.8	3296.0	3229.9	3183.0	3169.0	3097.7	3033.4	2958.6	2871.6
7.5°	3626.5	3636.9	3614.3	3560.4	3471.7	3391.7	3379.5	3280.4	3177.7	3062.9	2944.7
10°	3883.9	3896.1	3861.3	3783.0	3682.1	3583.0	3565.6	3456.0	3334.3	3193.4	3042.1
12.5°	4099.6	4111.8	4066.5	3972.6	3861.3	3758.7	3741.3	3626.5	3492.6	3336.0	3148.2
15°	4263.1	4285.7	4224.8	4123.9	4003.9	3901.3	3892.6	3779.5	3649.1	3475.2	3275.1
17.5°	4358.7	4381.3	4323.9	4202.2	4099.6	4012.6	4002.2	3908.3	3786.5	3619.5	3398.6
20°	4374.4	4395.3	4334.4	4228.3	4143.1	4073.5	4068.3	4000.4	3911.7	3751.7	3532.6
22.5°	4327.4	4353.5	4297.9	4212.6	4153.5	4117.0	4110.0	4071.7	4021.3	3885.6	3657.8
25°	4278.7	4299.6	4257.9	4183.1	4151.8	4148.3	4153.5	4146.5	4136.1	4021.3	3803.9
27.5°	4275.2	4297.9	4250.9	4179.6	4162.2	4198.7	4203.9	4237.0	4245.7	4144.8	3944.8
30°	4304.8	4320.5	4275.2	4200.5	4191.8	4275.2	4277.0	4336.1	4350.0	4249.2	4083.9
32.5°	4369.2	4386.6	4341.3	4231.8	4219.6	4336.1	4341.3	4419.6	4442.2	4360.5	4230.0
35°	4520.5	4541.4	4489.2	4318.7	4275.2	4393.5	4409.2	4501.4	4546.6	4478.7	4381.3
37.5°	4897.9	4837.0	4765.7	4494.4	4402.2	4484.0	4510.1	4617.9	4697.9	4619.6	4562.2
40°	5835.4	5644.1	5421.5	4793.6	4624.8	4677.0	4697.9	4805.7	4915.3	4838.8	4811.0
42.5°	7242.5	7016.4	6658.1	5482.3	4960.5	4986.6	5002.3	5096.2	5251.0	5190.1	5197.1
45°	8496.6	8414.8	8049.6	6658.1	5588.4	5459.7	5478.9	5527.6	5755.4	5732.8	5778.0
47.5°	9460.2	9413.2	9131.4	8007.8	6649.4	6038.9	6092.8	6115.4	6444.2	6524.2	6645.9
50°	10201.1	10183.7	9931.5	9208.0	8035.7	6892.9	6912.1	6863.4	7355.6	7553.9	7785.2
52.5°	10900.3	10959.5	10773.3	10322.9	9515.8	8011.3	8007.8	7778.2	8442.7	8741.8	9136.6
55°	11531.7	11552.6	11571.7	11460.4	11004.7	9284.5	9251.4	8875.7	9703.7	10013.3	10441.1
57.5°	12124.8	12133.5	12303.9	12531.8	12554.4	10651.6	10590.7	10140.2	11081.2	11302.1	11564.7
60°	12523.1	12563.1	12923.1	13556.3	13832.8	12062.2	12029.1	11570.0	12483.1	12585.7	12537.0
62.5°	11949.1	12192.6	13100.6	14356.3	15039.9	13625.8	13610.2	13178.8	13958.0	13874.5	13457.1
65°	9672.4	10084.6	11681.3	14897.3	16224.4	15372.1	15394.7	14935.5	15473.0	15201.6	14205.0
67.5°	6766.0	7200.8	9089.7	14940.8	17548.0	17422.8	17553.2	16833.1	17081.9	16473.1	14382.4
70°	4678.8	4903.1	6132.8	14005.0	18579.4	20247.4	20243.9	19163.8	18682.0	17052.3	13478.0
72.5°	3146.4	3263.0	3983.0	11110.8	17821.1	21925.9	21825.0	20944.9	19221.2	15947.8	11011.6
75°	1327.1	1412.3	1843.7	6244.2	14098.9	20059.6	19786.5	18509.8	17078.4	12557.9	6870.3
77.5°	420.9	457.4	727.0	2235.0	7766.1	15078.2	14789.4	11559.5	11446.5	6299.8	2511.6
80°	200.0	233.1	408.7	897.5	3056.0	8200.9	8160.9	5244.0	4924.0	1701.1	504.4
82.5°	87.0	102.6	226.1	480.1	1367.1	2925.5	2984.7	1784.5	1476.7	645.3	154.8
85°	27.8	36.5	104.4	220.9	577.5	727.0	718.3	424.4	594.8	351.3	53.9
87.5°	0.0	0.0	34.8	50.4	59.1	41.7	47.0	36.5	165.2	97.4	19.1
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°	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6	2791.6
2.5°	2805.5	2777.7	2729.0	2683.8	2643.8	2603.8	2579.4	2544.6	2541.1	2541.1	2549.8
5°	2824.7	2779.4	2692.5	2600.3	2494.2	2393.3	2292.4	2195.0	2163.7	2141.1	2151.5
7.5°	2880.3	2809.0	2671.6	2495.9	2294.2	2073.3	1918.5	1751.5	1687.1	1652.4	1657.6
10°	2960.3	2862.9	2654.2	2346.3	2019.3	1718.4	1497.6	1316.7	1247.1	1217.5	1217.5
12.5°	3049.0	2929.0	2622.9	2160.2	1718.4	1358.4	1142.7	1059.2	1048.8	1048.8	1048.8
15°	3155.1	3009.0	2569.0	1941.1	1403.6	1074.9	998.4	1001.8	1012.3	1019.2	1019.2
17.5°	3264.7	3094.2	2483.7	1695.8	1125.3	967.1	968.8	974.0	982.7	989.7	989.7
20°	3383.0	3179.5	2370.7	1434.9	965.3	935.8	941.0	946.2	953.1	956.6	958.4
22.5°	3509.9	3259.5	2236.8	1179.3	911.4	909.7	911.4	916.6	925.3	925.3	928.8
25°	3645.6	3348.2	2083.7	993.2	883.6	883.6	887.1	890.5	897.5	897.5	899.2
27.5°	3784.8	3429.9	1921.9	895.7	859.2	857.5	857.5	862.7	866.2	867.9	869.7
30°	3937.8	3525.6	1760.2	874.9	840.1	831.4	826.2	829.7	833.1	834.9	838.4
32.5°	4094.4	3617.8	1615.8	883.6	821.0	805.3	787.9	784.4	784.4	791.4	796.6
35°	4268.3	3718.7	1504.5	913.1	810.5	767.0	739.2	723.6	725.3	735.7	740.9
37.5°	4477.0	3840.4	1422.8	939.2	803.6	723.6	678.3	659.2	647.0	659.2	655.7
40°	4750.1	4019.6	1363.6	960.1	794.9	673.1	612.2	580.9	558.3	565.3	561.8
42.5°	5151.9	4301.3	1341.0	961.8	775.7	614.0	544.4	502.7	469.6	471.4	464.4
45°	5715.4	4746.6	1457.5	939.2	734.0	549.6	473.1	417.4	396.6	391.3	384.4
47.5°	6487.7	5395.4	1727.1	892.3	673.1	487.0	403.5	356.6	340.9	332.2	327.0
50°	7522.6	6228.5	2026.3	840.1	612.2	427.9	346.1	316.6	306.1	297.4	295.7
52.5°	8722.7	7073.8	2271.6	787.9	551.4	375.7	309.6	292.2	283.5	276.6	274.8
55°	9823.7	7656.5	2257.6	732.3	492.2	333.9	283.5	273.1	262.6	255.7	252.2
57.5°	10509.0	7738.2	1861.1	671.4	424.4	300.9	259.2	252.2	240.0	231.3	229.6
60°	10823.8	7272.1	1304.5	591.4	356.6	269.6	233.1	229.6	213.9	201.8	198.3
62.5°	10881.2	6405.9	869.7	492.2	297.4	240.0	207.0	201.8	180.9	160.0	149.6
65°	10648.1	5167.5	601.8	384.4	253.9	208.7	177.4	167.0	144.4	123.5	116.5
67.5°	9910.6	3628.2	419.2	276.6	215.7	165.2	140.9	137.4	120.0	102.6	97.4
70°	8559.2	2068.1	280.0	207.0	170.5	113.1	111.3	114.8	97.4	83.5	76.5
72.5°	6562.5	946.2	173.9	151.3	116.5	76.5	88.7	90.4	74.8	62.6	55.7
75°	3863.0	405.3	109.6	97.4	59.1	50.4	64.4	66.1	50.4	40.0	34.8
77.5°	1314.9	153.1	69.6	57.4	29.6	27.8	41.7	41.7	27.8	15.7	12.2
80°	299.2	57.4	34.8	22.6	13.9	12.2	13.9	12.2	7.0	1.7	0.0
82.5°	85.2	22.6	13.9	8.7	5.2	5.2	1.7	0.0	0.0	0.0	0.0
85°	24.4	10.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	1.7	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)