

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: P954843

Luminaire Tested: **GALN-SB8A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24946 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 227.1
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



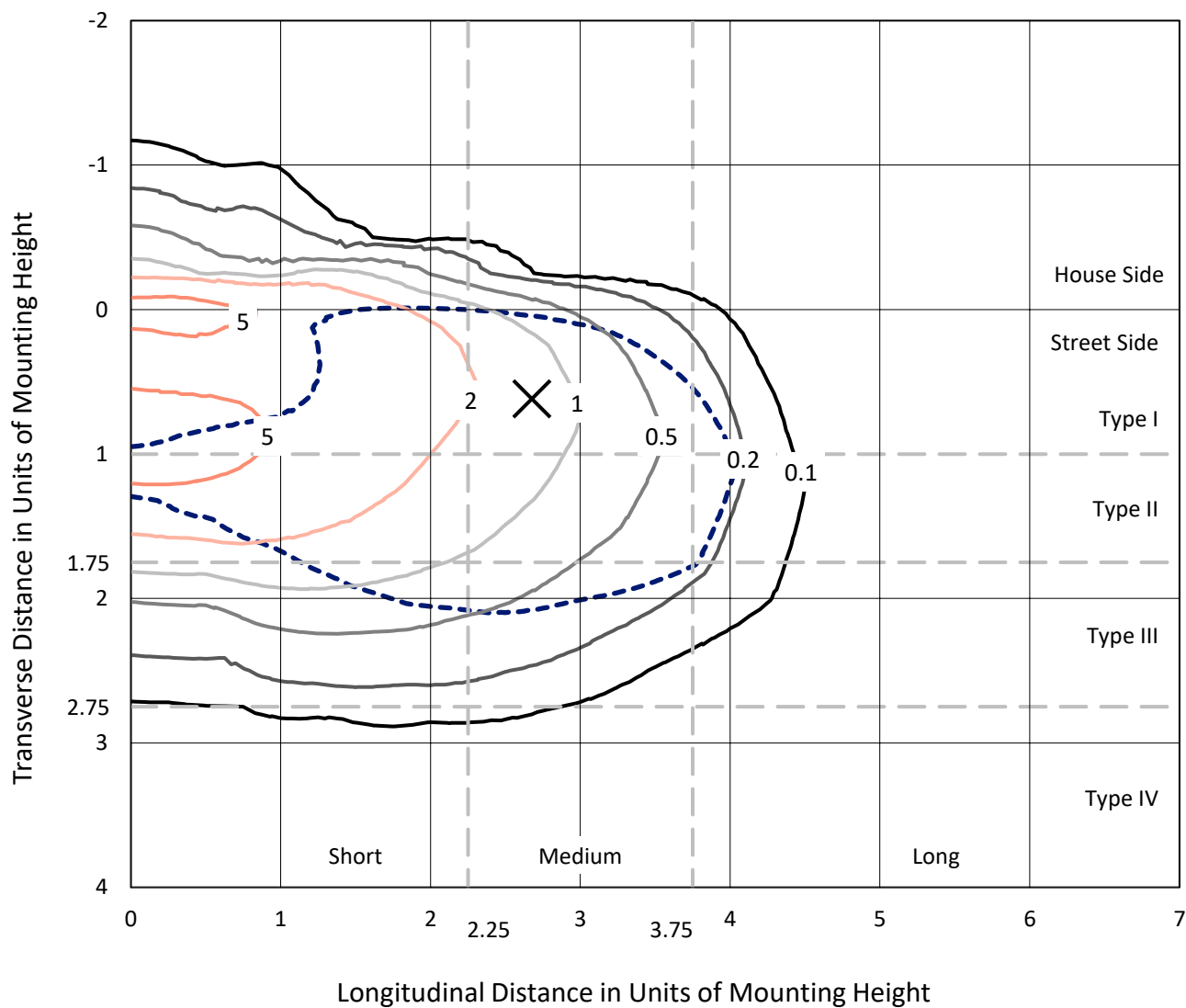
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

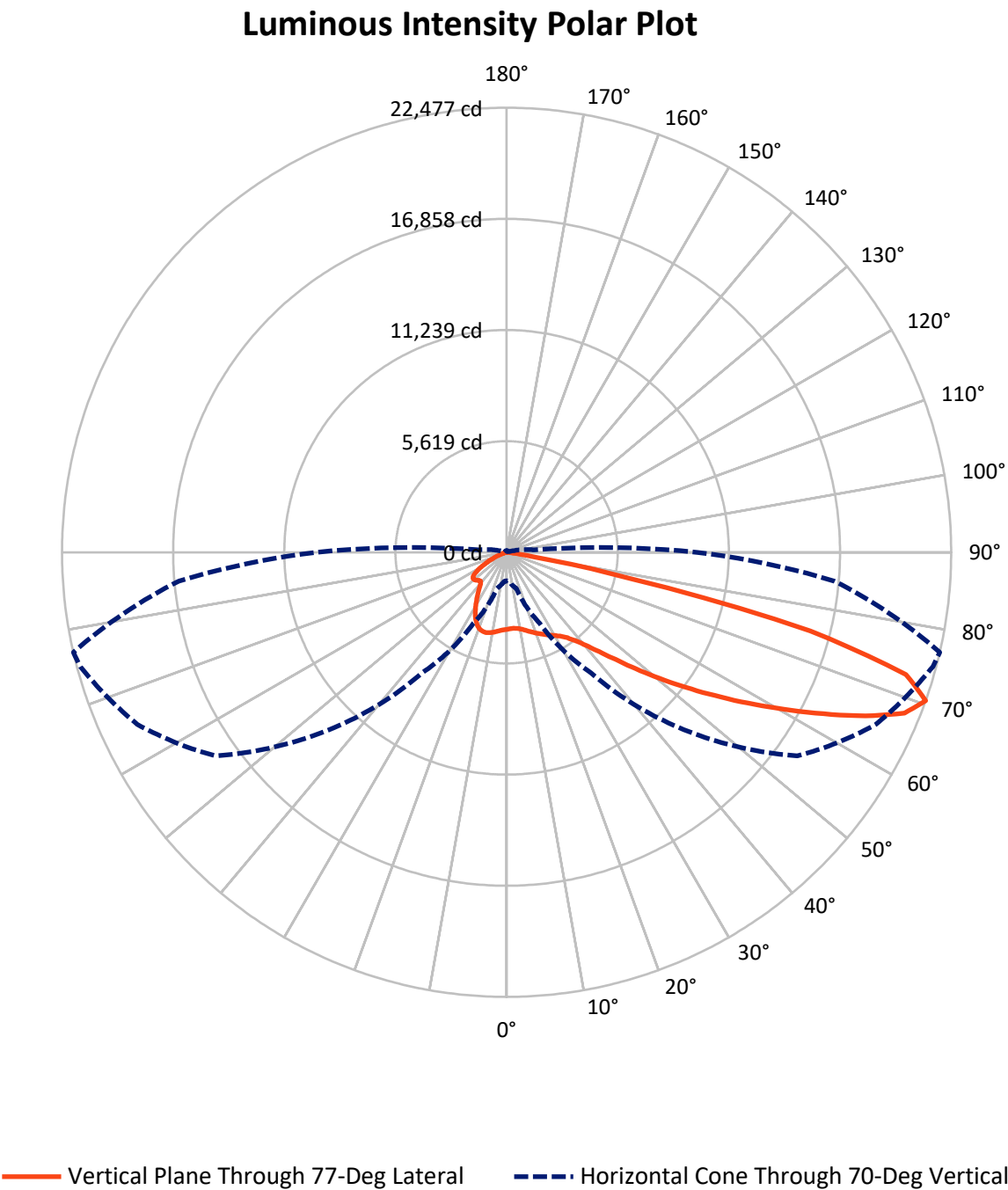
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.7	0.0	2629.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22316.3	0.0	22316.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	24946.0	0.0	24946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.4	1.3
10°-20°	796.1	3.2
20°-30°	1231.3	4.9
30°-40°	2234.3	9.0
40°-50°	4217.5	16.9
50°-60°	6094.0	24.4
60°-70°	6486.9	26.0
70°-80°	3437.6	13.8
80°-90°	112.9	0.5
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°	24946.0	100.0
0°-180°	24946.0	100.0

Coefficient of Utilization



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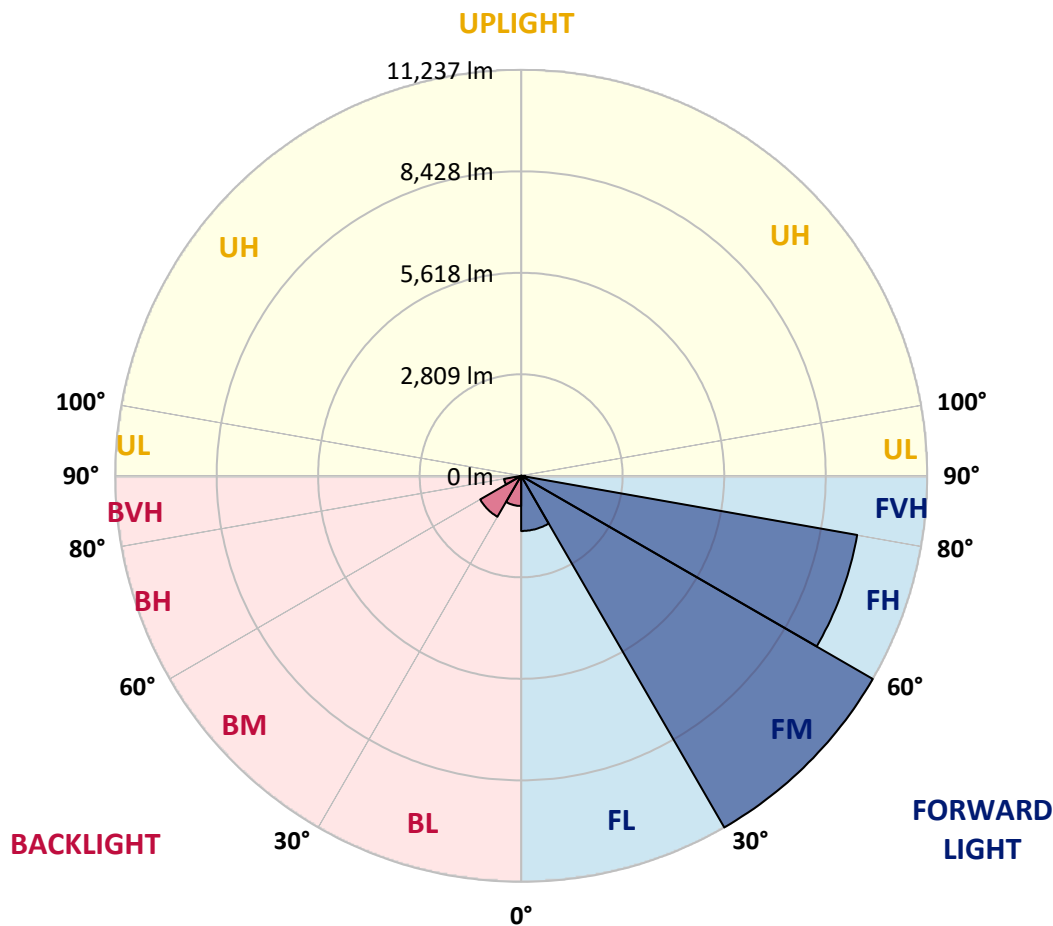
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1527.3	6.1			
FM	(30°-60°)	11236.8	45.0			
FH	(60°-80°)	9442.4	37.9			G4/12000
FVH	(80°-90°)	109.8	0.4			G2/225
BL	(0°-30°)	835.5	3.3	B2/1000		
BM	(30°-60°)	1309.1	5.2	B2/2500		
BH	(60°-80°)	482.1	1.9	B1/500		G1/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1
2.5°	3653.2	3686.3	3681.6	3703.7	3711.5	3743.0	3774.5	3817.1	3864.3	3862.8	3894.3
5°	3446.9	3480.0	3487.8	3517.8	3555.6	3604.4	3669.0	3754.1	3842.3	3856.5	3919.5
7.5°	3202.7	3237.4	3257.8	3317.7	3387.0	3487.8	3593.4	3717.8	3864.3	3884.8	4006.1
10°	2958.5	2990.0	3016.8	3101.9	3212.1	3361.8	3533.5	3713.1	3910.0	3940.0	4111.7
12.5°	2807.3	2837.2	2867.1	2941.2	3078.2	3261.0	3494.1	3735.2	3985.6	4028.2	4255.0
15°	2753.7	2780.5	2804.1	2870.3	2997.9	3205.8	3486.3	3780.9	4081.7	4138.5	4428.3
17.5°	2761.6	2775.8	2791.5	2841.9	2966.4	3180.6	3500.4	3859.6	4195.2	4245.6	4601.6
20°	2807.3	2815.2	2816.7	2851.4	2961.7	3177.5	3528.8	3935.2	4302.3	4370.0	4773.3
22.5°	2865.6	2868.7	2865.6	2889.2	2991.6	3201.1	3566.6	4026.6	4422.0	4485.0	4946.6
25°	3138.1	3078.2	3002.6	2956.9	3042.0	3246.8	3623.3	4149.5	4552.8	4614.2	5115.2
27.5°	3984.1	3812.4	3541.4	3237.4	3146.0	3313.0	3702.1	4273.9	4685.1	4740.2	5296.3
30°	5357.8	5132.5	4672.5	3987.2	3480.0	3451.6	3804.5	4398.4	4825.3	4885.2	5490.1
32.5°	6734.6	6679.5	6148.6	5200.2	4231.4	3760.4	3974.6	4567.0	5011.2	5058.5	5751.6
35°	8127.3	8015.4	7580.6	6643.3	5389.3	4388.9	4258.2	4787.5	5255.4	5308.9	6132.9
37.5°	9193.8	9126.0	8856.6	8084.7	6763.0	5359.4	4743.4	5129.4	5609.8	5669.7	6621.2
40°	10135.8	10104.3	10013.0	9504.1	8299.0	6629.1	5498.0	5658.7	6101.3	6172.2	7219.8
42.5°	10876.2	10950.3	11002.3	10860.5	9882.2	8078.4	6512.5	6402.2	6786.6	6859.1	7982.3
45°	11634.0	11659.2	11868.7	12073.5	11454.4	9593.9	7656.2	7273.4	7638.9	7728.7	8896.0
47.5°	12120.8	12221.6	12590.2	12951.0	12776.1	11096.8	8885.0	8302.1	8626.6	8795.2	9920.0
50°	12157.0	12347.6	12854.9	13483.5	13738.7	12527.2	10220.9	9474.2	9819.2	10005.1	11013.3
52.5°	11553.6	11849.8	12635.9	13555.9	14258.5	13738.7	11602.5	10646.2	11088.9	11331.5	12147.6
55°	8858.2	9245.8	11812.0	13162.1	14279.0	14657.1	12947.8	11867.1	12503.6	12777.7	13373.2
57.5°	7717.7	7913.0	9286.7	12478.4	13899.4	15027.3	14164.0	13029.8	14042.7	14383.0	14531.1
60°	6421.1	6677.9	7788.6	11359.9	13384.2	15063.5	15238.4	14529.5	15711.0	16093.8	15592.9
62.5°	4363.7	4642.6	5746.9	9437.9	12680.0	15046.2	16119.0	16073.3	17565.2	17976.4	16492.4
65°	2703.3	2878.2	3606.0	7706.6	11695.4	15065.1	17040.6	17948.0	19521.8	19939.3	17188.7
67.5°	2136.2	2216.5	2596.2	5917.0	9998.8	14639.8	17960.6	19710.8	21363.4	21694.2	17401.4
70°	1435.1	1484.0	1888.8	3966.7	7438.8	12676.9	17943.3	20596.2	22311.7	22477.2	16626.3
72.5°	756.2	794.0	1104.3	1836.9	4492.9	9011.0	15125.0	19537.5	21368.1	21119.2	14211.3
75°	378.1	441.1	743.6	932.6	1918.8	5025.4	9392.3	15403.8	16818.5	15854.4	9118.2
77.5°	286.7	346.6	614.4	614.4	668.0	1691.9	3977.8	8401.4	7749.2	6452.7	2676.5
80°	182.7	236.3	537.2	464.7	278.8	430.1	1036.6	2353.6	1646.2	1252.4	486.8
82.5°	107.1	154.4	447.4	307.2	156.0	159.1	293.0	501.0	426.9	332.4	149.7
85°	42.5	100.8	307.2	121.3	61.4	39.4	88.2	107.1	88.2	66.2	37.8
87.5°	0.0	23.6	53.6	0.0	4.7	3.2	6.3	7.9	7.9	6.3	12.6
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°	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1	3891.1
2.5°	3908.5	3911.6	3921.1	3922.6	3900.6	3872.2	3861.2	3856.5	3837.6	3836.0	3839.1
5°	3955.7	3969.9	3955.7	3914.8	3817.1	3680.0	3576.1	3491.0	3413.8	3390.2	3376.0
7.5°	4050.2	4064.4	4021.9	3861.2	3615.4	3342.9	3097.1	2923.9	2767.9	2709.6	2686.0
10°	4185.7	4204.6	4070.7	3746.2	3311.4	2873.4	2457.6	2164.5	1936.1	1843.2	1803.8
12.5°	4355.9	4363.7	4097.5	3571.3	2916.0	2290.6	1701.4	1387.9	1184.7	1109.0	1085.4
15°	4543.3	4532.3	4100.6	3333.4	2377.2	1619.5	1110.6	912.1	830.2	805.0	805.0
17.5°	4740.2	4694.6	4037.6	2990.0	1786.5	1107.5	823.9	776.6	762.5	756.2	754.6
20°	4934.0	4831.6	3922.6	2541.0	1282.3	827.1	748.3	734.1	726.2	723.1	719.9
22.5°	5110.4	4935.6	3725.7	2019.6	931.0	731.0	707.3	694.7	680.6	674.3	672.7
25°	5282.2	4995.4	3448.5	1532.8	745.1	683.7	664.8	641.2	622.3	614.4	611.2
27.5°	5449.2	5033.3	3101.9	1134.3	664.8	639.6	604.9	571.9	557.7	554.5	551.4
30°	5627.2	5045.9	2708.0	846.0	616.0	584.5	534.0	496.2	488.4	489.9	489.9
32.5°	5844.6	5064.8	2311.0	693.2	575.0	518.3	458.4	419.0	412.7	419.0	417.5
35°	6104.5	5102.6	1928.2	638.0	538.8	450.6	386.0	352.9	346.6	351.3	349.7
37.5°	6457.4	5164.0	1570.6	627.0	508.8	393.8	324.5	297.7	297.7	299.3	297.7
40°	6926.8	5327.8	1250.8	619.1	493.1	351.3	274.1	263.1	267.8	271.0	271.0
42.5°	7498.7	5676.0	1035.0	609.7	475.8	332.4	248.9	244.2	252.1	255.2	255.2
45°	8139.9	6117.1	959.4	593.9	460.0	345.0	237.9	231.6	241.0	242.6	244.2
47.5°	8803.1	6548.7	949.9	576.6	444.2	363.9	234.7	220.5	231.6	233.2	234.7
50°	9474.2	6830.7	959.4	549.8	419.0	363.9	236.3	209.5	219.0	223.7	225.3
52.5°	10150.0	6959.9	953.1	491.5	374.9	341.9	236.3	200.1	209.5	212.7	212.7
55°	10805.4	6934.7	857.0	404.9	318.2	302.5	230.0	192.2	198.5	200.1	200.1
57.5°	11323.6	6583.4	679.0	315.1	258.4	252.1	209.5	182.7	187.5	185.9	185.9
60°	11594.6	5811.5	485.2	242.6	203.2	198.5	184.3	170.1	173.3	165.4	163.8
62.5°	11597.8	4790.7	324.5	192.2	162.3	157.5	157.5	152.8	149.7	133.9	129.2
65°	11350.4	3658.0	215.8	152.8	130.8	122.9	132.3	130.8	119.7	97.7	94.5
67.5°	10789.6	2397.7	163.8	119.7	100.8	96.1	105.5	110.3	102.4	81.9	80.3
70°	9636.4	1395.8	135.5	92.9	75.6	70.9	85.1	94.5	85.1	66.2	63.0
72.5°	8004.4	753.0	110.3	69.3	52.0	47.3	67.7	77.2	67.7	48.8	47.3
75°	5193.9	403.3	85.1	45.7	26.8	29.9	50.4	56.7	47.3	31.5	28.4
77.5°	1743.9	178.0	53.6	22.1	12.6	12.6	29.9	34.7	22.1	11.0	9.5
80°	389.1	74.0	22.1	9.5	4.7	4.7	6.3	6.3	3.2	0.0	0.0
82.5°	127.6	29.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.8	11.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	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)