

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: P953458

Luminaire Tested: **GALN-SB7A-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32750 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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

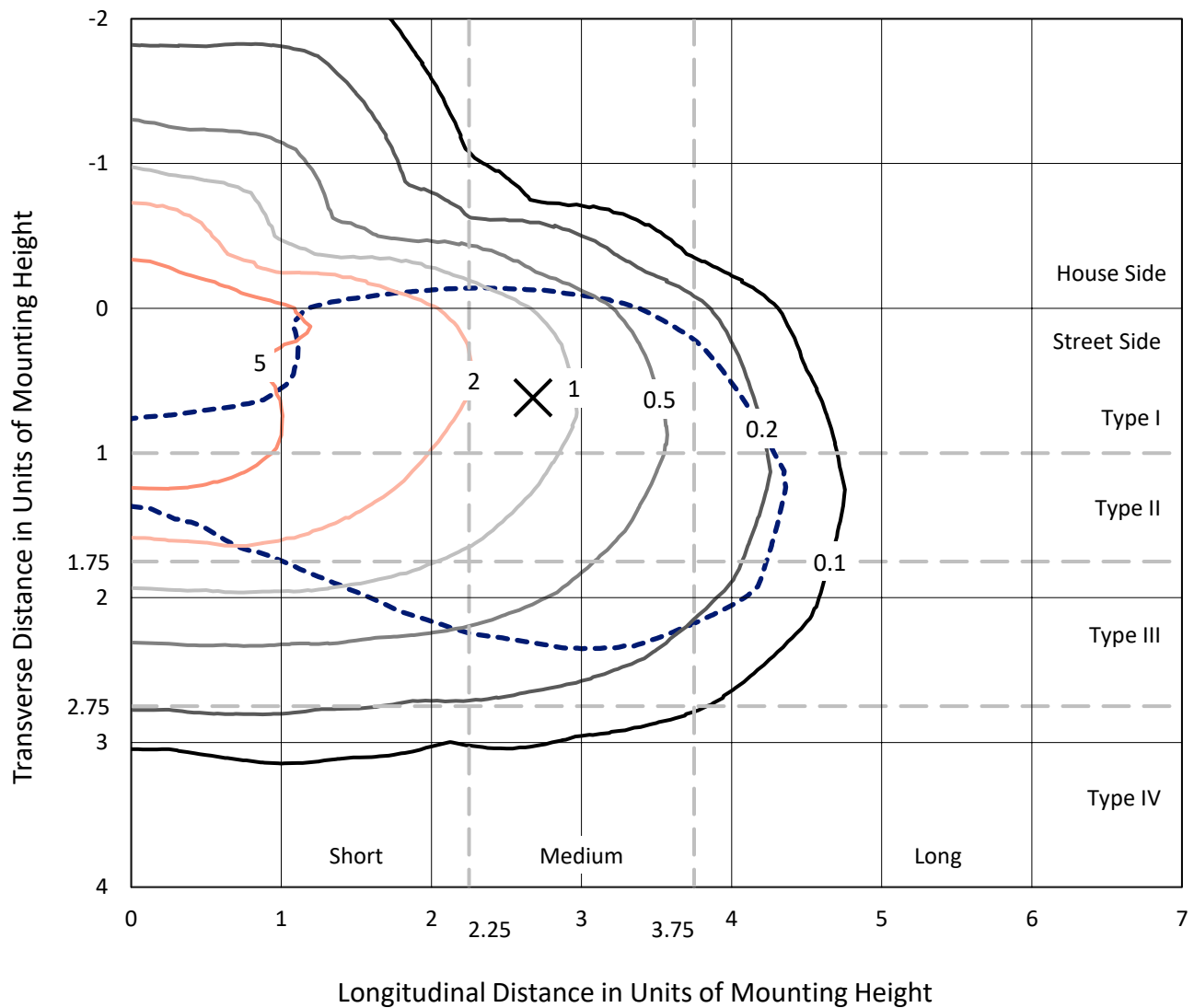


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

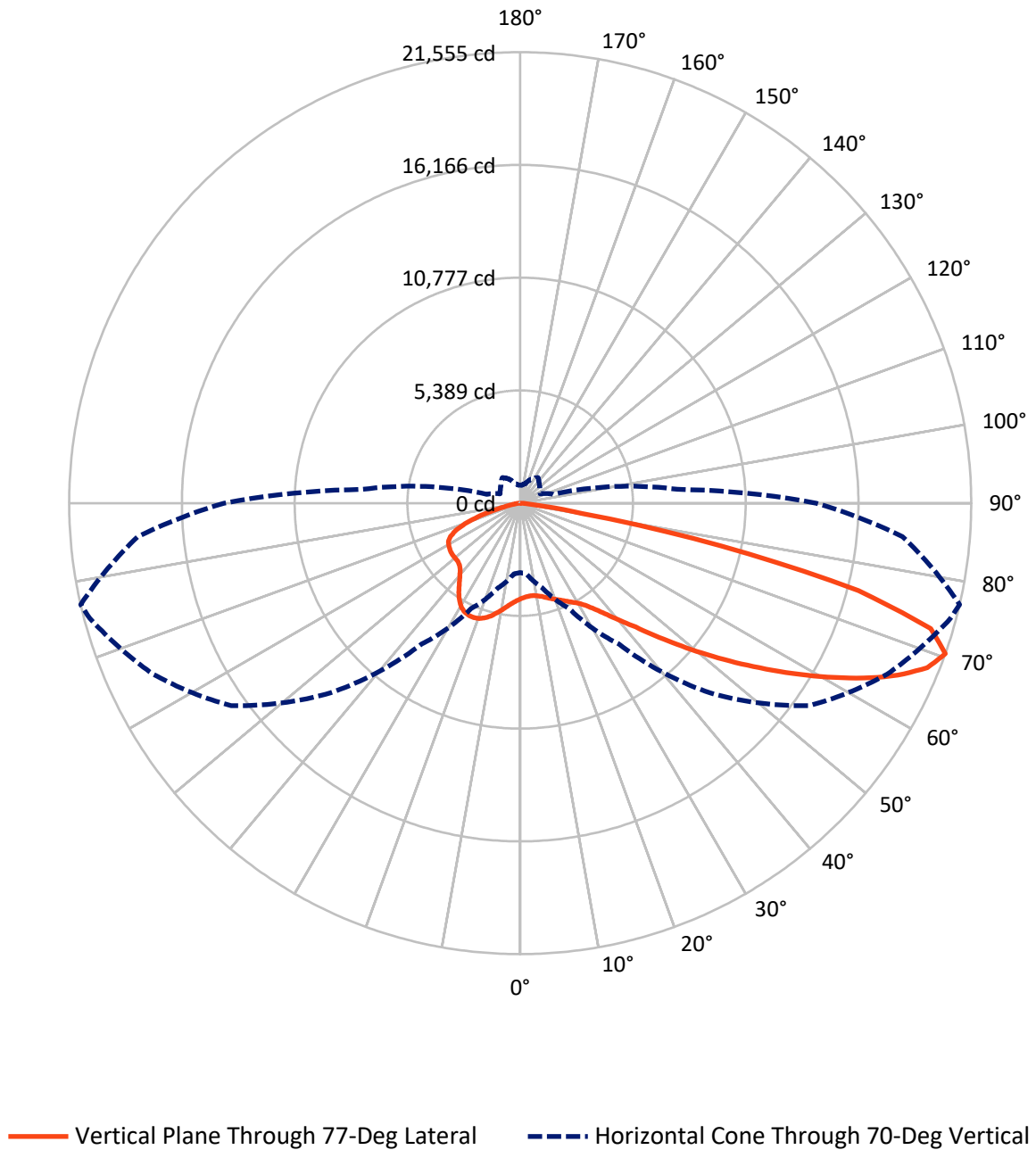


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7171.7	0.0	7171.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25578.3	0.0	25578.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	32750.0	0.0	32750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	1.3
10°-20°	1257.6	3.8
20°-30°	2150.7	6.6
30°-40°	3458.6	10.6
40°-50°	5399.7	16.5
50°-60°	7212.8	22.0
60°-70°	7687.7	23.5
70°-80°	4732.5	14.5
80°-90°	414.7	1.3
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°	32750.0	100.0
0°-180°	32750.0	100.0

Coefficient of Utilization



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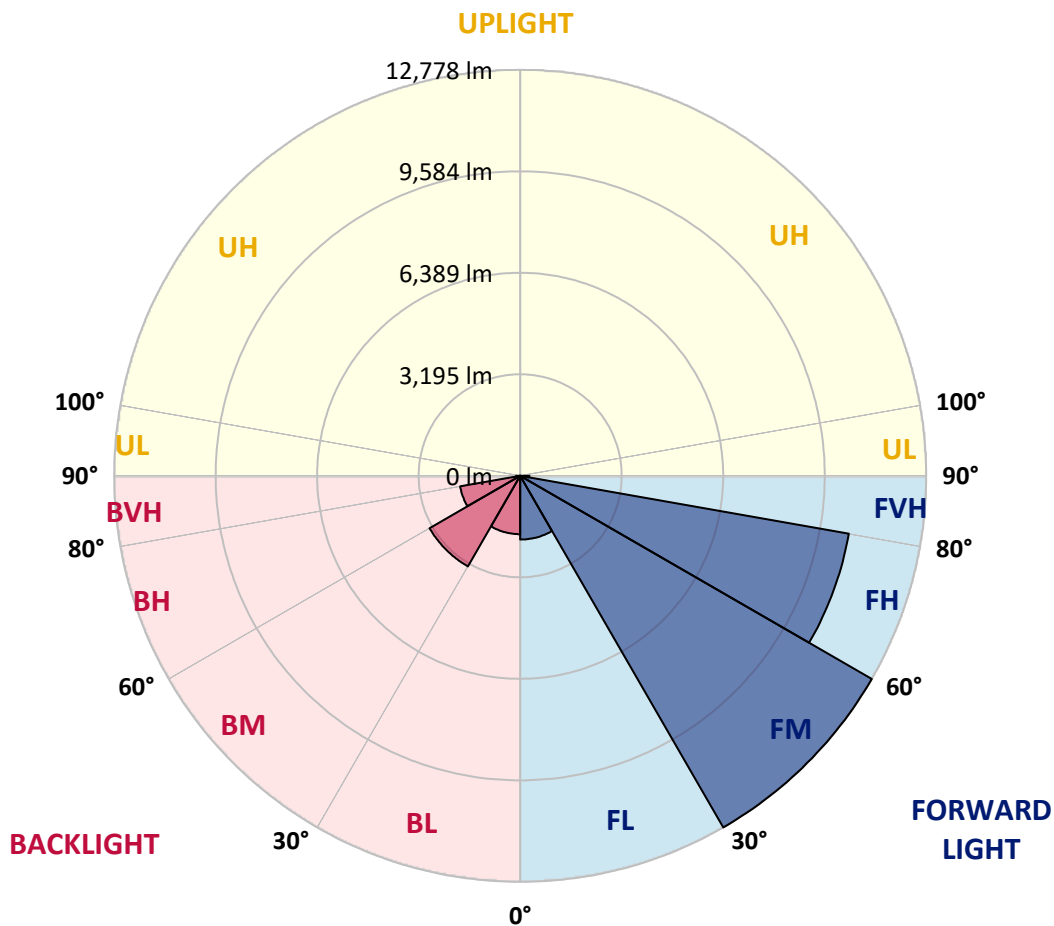
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2006.5	6.1			
FM	(30°-60°)	12778.3	39.0			
FH	(60°-80°)	10503.5	32.1			G4/12000
FVH	(80°-90°)	290.0	0.9			G3/500
BL	(0°-30°)	1837.6	5.6	B3/2500		
BM	(30°-60°)	3292.7	10.1	B3/5000		
BH	(60°-80°)	1916.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	124.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4211.7	4210.0	4231.8	4238.5	4278.8	4307.3	4360.9	4418.0	4491.8	4500.2	4545.4
5°	3968.5	3968.5	3993.6	4020.5	4072.4	4129.5	4211.7	4310.6	4438.1	4458.2	4570.6
7.5°	3762.1	3775.6	3797.4	3849.4	3909.8	3991.9	4117.7	4258.6	4426.4	4458.2	4639.4
10°	3596.1	3611.2	3638.0	3680.0	3770.5	3884.6	4049.0	4230.1	4454.9	4505.2	4740.0
12.5°	3544.1	3559.2	3574.3	3606.2	3690.0	3824.2	4020.5	4243.5	4523.6	4574.0	4877.5
15°	3664.9	3683.3	3671.6	3663.2	3706.8	3829.2	4033.9	4292.2	4609.2	4681.3	5046.9
17.5°	3943.3	3950.0	3923.2	3844.3	3837.6	3903.0	4097.6	4359.3	4716.5	4795.4	5218.0
20°	4392.8	4381.1	4325.7	4169.7	4080.8	4067.4	4206.6	4459.9	4827.2	4911.1	5402.5
22.5°	5003.3	4989.9	4879.2	4632.7	4434.7	4303.9	4364.3	4590.7	4951.3	5045.3	5582.0
25°	5764.8	5746.4	5583.7	5248.2	4941.3	4617.6	4579.0	4763.5	5104.0	5191.2	5769.9
27.5°	6653.8	6638.7	6462.6	6019.8	5577.0	5046.9	4845.7	4966.4	5263.3	5362.3	5981.2
30°	7609.8	7653.5	7341.5	6865.1	6304.9	5607.2	5204.6	5216.4	5469.6	5558.5	6237.8
32.5°	8733.6	8809.1	8433.4	7829.6	7064.7	6216.0	5657.5	5565.2	5769.9	5843.7	6561.5
35°	9847.3	9932.9	9620.9	8953.3	8072.8	6933.9	6130.5	5966.1	6169.1	6249.6	6990.9
37.5°	10810.1	10924.2	10763.1	10182.8	9151.3	7799.4	6747.7	6437.4	6660.5	6761.1	7567.9
40°	11569.9	11744.3	11732.6	11370.3	10422.6	8849.4	7531.0	7019.4	7271.0	7380.1	8267.3
42.5°	12187.2	12338.1	12468.9	12450.5	11749.4	10041.9	8451.8	7775.9	7967.1	8092.9	9054.0
45°	12613.2	12774.2	13056.0	13359.6	13025.8	11318.3	9506.9	8673.2	8847.7	9037.2	9991.6
47.5°	12993.9	13176.7	13542.4	14023.8	14109.3	12599.8	10662.5	9718.2	9877.5	10073.8	10932.5
50°	13027.5	13185.1	13752.1	14434.7	14879.2	13830.9	11903.7	10890.6	11039.9	11249.5	11940.6
52.5°	12217.3	12465.6	13455.2	14423.0	15233.1	14860.7	13136.5	12110.0	12277.7	12529.3	12983.9
55°	9483.4	9847.3	12584.7	13973.5	15107.3	15526.6	14308.9	13406.5	13621.2	13884.6	14033.8
57.5°	8168.4	8327.7	9989.9	13154.9	14533.7	15699.4	15298.5	14716.5	15062.0	15350.5	15144.2
60°	7341.5	7474.0	8456.9	11881.9	13778.9	15426.0	16063.4	15937.6	16534.7	16878.5	16279.7
62.5°	6455.9	6581.7	7475.7	9921.1	12812.8	14971.4	16546.4	17064.7	18044.2	18419.9	17349.8
65°	5577.0	5684.3	6541.4	8336.1	11585.0	14516.9	16796.3	18039.2	19441.4	19830.5	18238.8
67.5°	4597.4	4686.3	5496.5	7032.9	10092.2	13894.6	16920.4	18805.7	20657.4	20991.2	18678.2
70°	3317.7	3386.4	4223.4	5561.9	8218.7	12824.5	16870.1	19349.2	21288.1	21554.8	18346.1
72.5°	1568.3	1630.3	2613.2	3611.2	5805.1	10741.3	15852.0	18918.1	20647.4	20514.9	16313.3
75°	837.0	890.6	1501.2	1980.9	3066.1	7363.3	12972.1	16296.5	17338.1	16694.0	12056.3
77.5°	566.9	608.9	929.2	1189.2	1400.5	3495.5	8337.8	11283.1	10855.4	9792.0	6038.2
80°	449.5	493.1	761.5	805.1	677.6	1263.0	3445.1	5223.1	3752.1	3000.7	1717.5
82.5°	345.5	394.2	640.7	583.7	369.0	518.3	1003.0	1652.1	961.1	731.3	416.0
85°	211.3	263.3	503.2	372.4	208.0	236.5	340.5	459.6	293.5	244.9	149.3
87.5°	107.3	151.0	254.9	135.9	93.9	55.4	90.6	90.6	77.2	67.1	38.6
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°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4585.7	4619.2	4676.3	4729.9	4771.9	4812.1	4852.4	4874.2	4880.9	4907.7	4922.8
5°	4639.4	4701.4	4812.1	4916.1	4981.5	5021.8	5050.3	5067.1	5070.4	5078.8	5092.2
7.5°	4738.3	4837.3	4991.6	5095.6	5144.2	5140.9	5129.1	5087.2	5070.4	5055.3	5058.7
10°	4877.5	5008.4	5197.9	5270.0	5239.8	5159.3	5055.3	4932.9	4875.9	4820.5	4803.7
12.5°	5050.3	5216.4	5402.5	5399.2	5249.9	5043.6	4802.1	4614.2	4495.1	4409.6	4389.5
15°	5260.0	5451.2	5593.7	5479.7	5152.6	4781.9	4428.0	4183.1	4075.8	3981.9	3971.8
17.5°	5476.3	5681.0	5746.4	5454.5	4907.7	4394.5	3993.6	3800.7	3695.1	3644.7	3659.8
20°	5687.7	5890.6	5837.0	5310.3	4535.4	3955.0	3597.8	3492.1	3470.3	3482.0	3477.0
22.5°	5910.8	6091.9	5855.4	5031.9	4060.7	3505.5	3309.3	3312.6	3361.3	3396.5	3404.9
25°	6138.9	6261.3	5806.8	4629.3	3550.8	3175.1	3126.5	3180.1	3275.7	3344.5	3363.0
27.5°	6358.6	6412.3	5701.1	4131.2	3113.0	2938.6	2947.0	3057.7	3201.9	3297.5	3321.0
30°	6606.8	6546.4	5498.1	3570.9	2809.5	2735.7	2806.1	2935.2	3079.5	3165.0	3185.2
32.5°	6886.9	6662.2	5176.1	3052.7	2594.8	2573.0	2688.7	2772.6	2836.3	2861.4	2874.9
35°	7235.8	6824.9	4763.5	2688.7	2401.9	2453.9	2564.6	2522.6	2497.5	2484.1	2497.5
37.5°	7688.7	7044.6	4280.4	2452.2	2245.9	2368.3	2413.6	2282.8	2183.8	2135.2	2146.9
40°	8233.8	7366.6	3815.8	2269.4	2146.9	2294.5	2215.7	2058.0	1932.2	1863.5	1868.5
42.5°	8839.3	7703.8	3425.0	2131.8	2091.6	2234.1	2069.8	1881.9	1679.0	1657.2	1679.0
45°	9475.0	8051.0	3158.3	2026.2	2064.7	2182.1	1985.9	1682.3	1538.1	1627.0	1673.9
47.5°	10110.7	8369.7	2997.3	1947.3	2051.3	2123.4	1912.1	1571.6	1469.3	1598.5	1658.8
50°	10818.5	8654.8	2925.2	1890.3	2036.2	2100.0	1801.4	1543.1	1397.2	1482.7	1546.5
52.5°	11521.3	8876.2	2871.5	1833.3	2014.4	2081.5	1747.7	1509.6	1310.0	1315.0	1350.2
55°	12222.4	9020.4	2812.8	1757.8	1965.8	2041.3	1742.7	1472.7	1244.5	1221.1	1237.8
57.5°	12970.4	9102.6	2740.7	1673.9	1881.9	1938.9	1737.7	1444.1	1224.4	1185.8	1190.9
60°	13731.9	9223.4	2646.8	1571.6	1769.5	1816.5	1725.9	1434.1	1212.7	1147.3	1152.3
62.5°	14414.6	9265.3	2534.4	1474.3	1625.3	1695.7	1700.8	1425.7	1180.8	1068.4	1068.4
65°	14862.4	9084.2	2338.1	1363.6	1469.3	1571.6	1652.1	1397.2	1123.8	1011.4	1011.4
67.5°	14844.0	8567.6	2031.2	1221.1	1318.3	1434.1	1581.7	1348.5	1055.0	941.0	946.0
70°	14152.9	7547.8	1642.1	1055.0	1152.3	1286.5	1491.1	1276.4	972.8	863.8	873.9
72.5°	12138.5	5907.4	1192.5	860.4	959.4	1133.8	1373.7	1189.2	889.0	795.0	790.0
75°	8671.6	3738.7	808.5	660.9	746.4	961.1	1227.8	1086.9	811.8	798.4	753.1
77.5°	4429.7	1786.3	535.1	483.1	520.0	758.1	1031.5	971.1	823.5	659.2	587.0
80°	1440.8	659.2	337.1	328.7	345.5	504.9	798.4	796.7	623.9	447.8	395.8
82.5°	459.6	283.5	219.7	211.3	203.0	317.0	556.9	630.7	421.0	283.5	281.8
85°	182.8	169.4	129.2	119.1	85.5	149.3	291.8	419.3	313.7	204.6	209.7
87.5°	67.1	67.1	35.2	25.2	18.5	50.3	78.8	125.8	179.5	105.7	104.0
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)