

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: P950602

Luminaire Tested: **GALN-SB5A-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950602
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-SB5A-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 23262 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
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



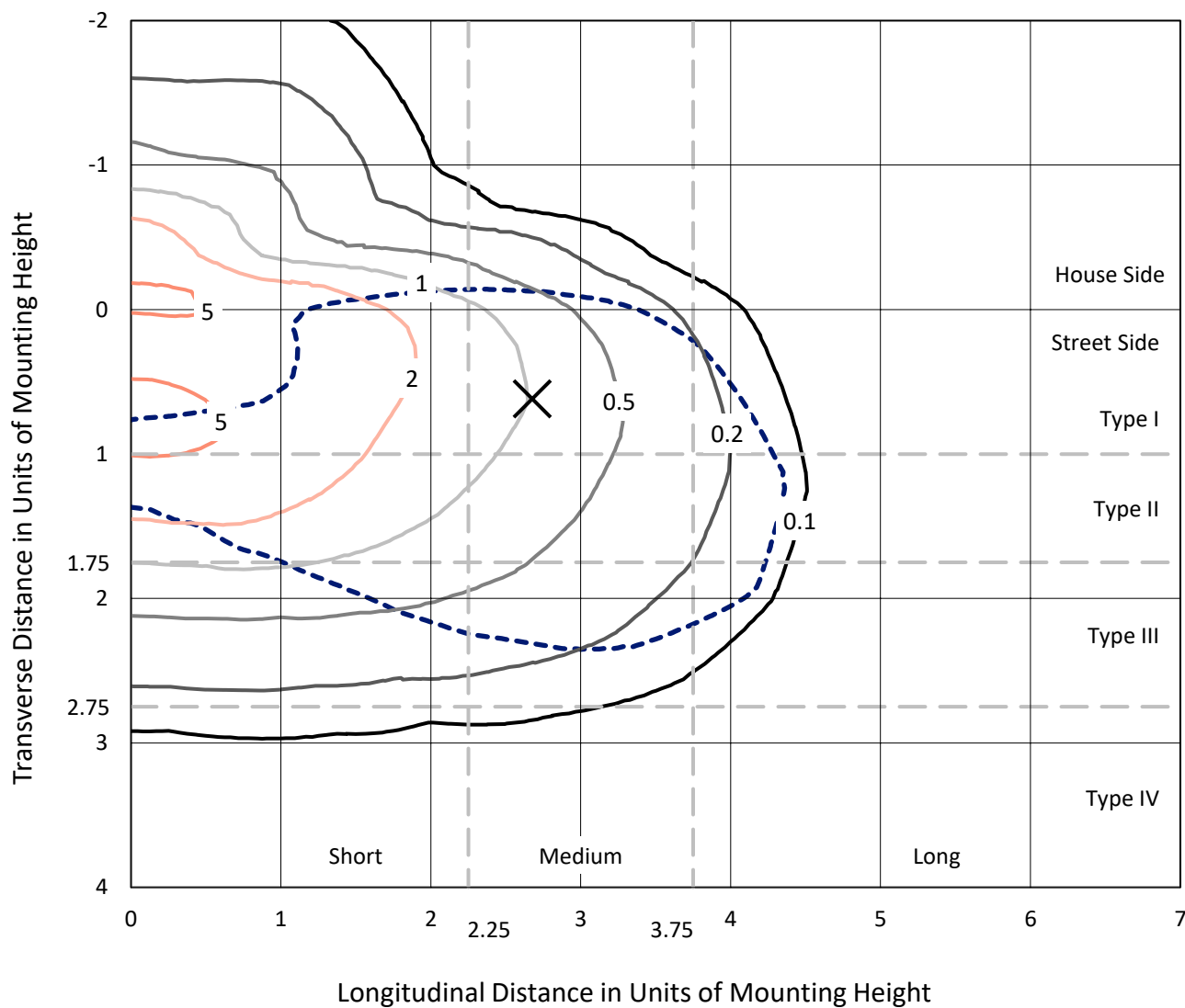
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

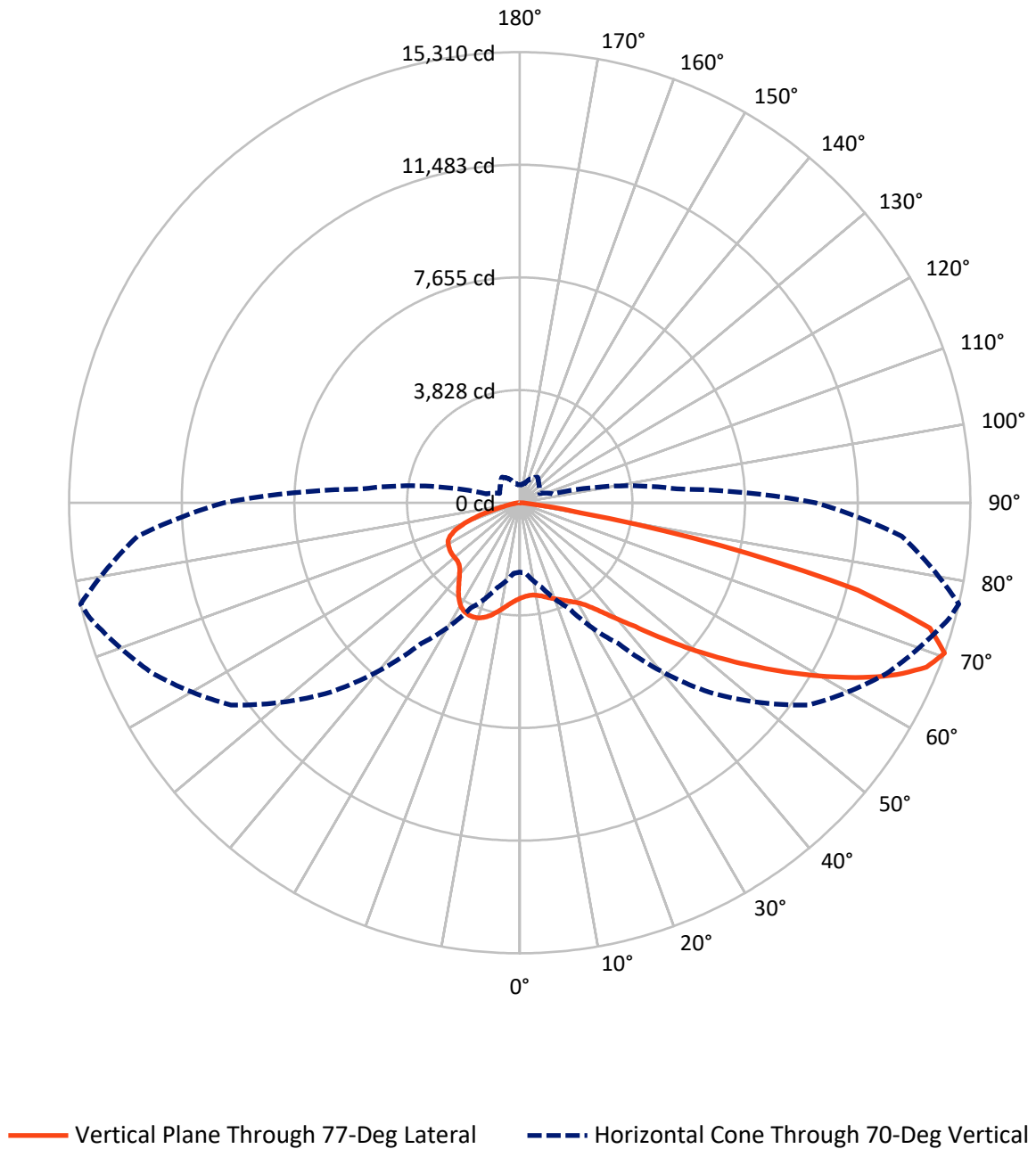


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5094.0	0.0	5094.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18168.0	0.0	18168.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	23262.0	0.0	23262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.3
10°-20°	893.3	3.8
20°-30°	1527.6	6.6
30°-40°	2456.6	10.6
40°-50°	3835.4	16.5
50°-60°	5123.1	22.0
60°-70°	5460.5	23.5
70°-80°	3361.4	14.5
80°-90°	294.6	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°	23262.0	100.0
0°-180°	23262.0	100.0

Coefficient of Utilization



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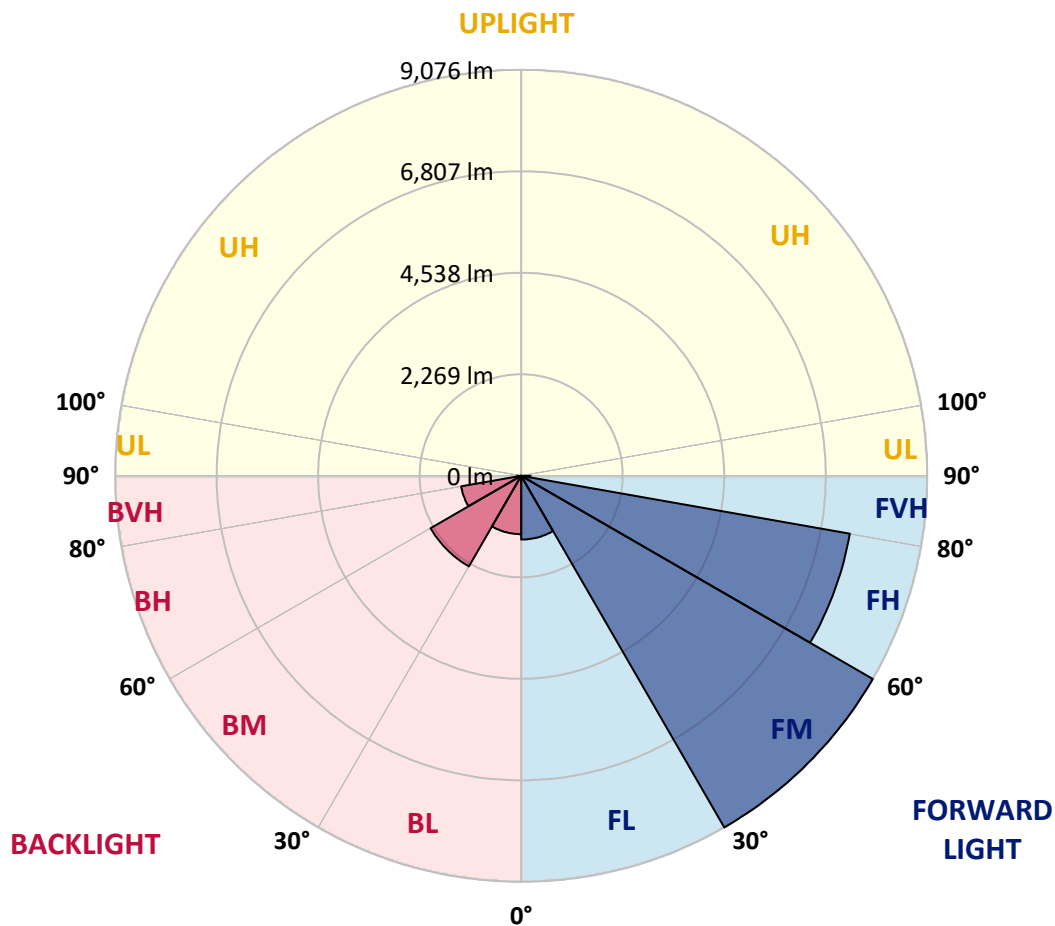
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.2	6.1			
FM	(30°-60°)	9076.3	39.0			
FH	(60°-80°)	7460.5	32.1			G3/7500
FVH	(80°-90°)	206.0	0.9			G2/225
BL	(0°-30°)	1305.2	5.6	B3/2500		
BM	(30°-60°)	2338.8	10.1	B2/2500		
BH	(60°-80°)	1361.4	5.9	B3/2500		G3/2500
BVH	(80°-90°)	88.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	2991.5	2990.3	3005.8	3010.6	3039.2	3059.4	3097.5	3138.0	3190.5	3196.4	3228.6
5°	2818.8	2818.8	2836.6	2855.7	2892.6	2933.1	2991.5	3061.8	3152.3	3166.6	3246.5
7.5°	2672.2	2681.7	2697.2	2734.2	2777.1	2835.4	2924.8	3024.9	3144.0	3166.6	3295.3
10°	2554.3	2565.0	2584.1	2613.8	2678.2	2759.2	2875.9	3004.6	3164.2	3200.0	3366.8
12.5°	2517.3	2528.1	2538.8	2561.4	2621.0	2716.3	2855.7	3014.1	3213.1	3248.8	3464.5
15°	2603.1	2616.2	2607.9	2601.9	2632.9	2719.9	2865.2	3048.7	3273.9	3325.1	3584.8
17.5°	2800.9	2805.6	2786.6	2730.6	2725.8	2772.3	2910.5	3096.3	3350.1	3406.1	3706.3
20°	3120.2	3111.8	3072.5	2961.7	2898.6	2889.0	2987.9	3167.8	3428.7	3488.3	3837.4
22.5°	3553.8	3544.3	3465.7	3290.5	3150.0	3057.0	3099.9	3260.7	3516.9	3583.6	3964.8
25°	4094.7	4081.6	3966.0	3727.8	3509.7	3279.8	3252.4	3383.5	3625.3	3687.3	4098.3
27.5°	4726.1	4715.4	4590.3	4275.8	3961.3	3584.8	3441.8	3527.6	3738.5	3808.8	4248.4
30°	5405.2	5436.2	5214.6	4876.2	4478.3	3982.7	3696.8	3705.1	3885.0	3948.2	4430.7
32.5°	6203.4	6257.0	5990.2	5561.3	5018.0	4415.2	4018.5	3952.9	4098.3	4150.7	4660.6
35°	6994.5	7055.2	6833.6	6359.5	5734.0	4925.1	4354.4	4237.7	4381.8	4439.0	4965.6
37.5°	7678.3	7759.3	7644.9	7232.7	6500.1	5539.8	4792.8	4572.4	4730.9	4802.4	5375.4
40°	8218.0	8341.9	8333.6	8076.2	7403.1	6285.6	5349.2	4985.8	5164.5	5242.0	5872.2
42.5°	8656.4	8763.6	8856.6	8843.5	8345.5	7132.7	6003.3	5523.1	5659.0	5748.3	6431.0
45°	8959.0	9073.4	9273.5	9489.2	9252.1	8039.3	6752.6	6160.5	6284.4	6419.0	7096.9
47.5°	9229.5	9359.3	9619.0	9961.0	10021.7	8949.5	7573.5	6902.7	7015.9	7155.3	7765.3
50°	9253.3	9365.3	9768.0	10252.8	10568.5	9823.9	8455.1	7735.5	7841.5	7990.4	8481.3
52.5°	8677.9	8854.2	9557.1	10244.5	10819.9	10555.4	9330.7	8601.6	8720.7	8899.4	9222.3
55°	6735.9	6994.5	8938.8	9925.2	10730.6	11028.4	10163.5	9522.5	9675.0	9862.1	9968.1
57.5°	5801.9	5915.1	7095.7	9343.8	10323.1	11151.1	10866.4	10453.0	10698.4	10903.3	10756.8
60°	5214.6	5308.7	6006.8	8439.6	9787.0	10956.9	11409.6	11320.3	11744.4	11988.6	11563.3
62.5°	4585.5	4674.9	5309.9	7046.9	9100.8	10634.1	11752.8	12120.9	12816.6	13083.5	12323.4
65°	3961.3	4037.5	4646.3	5921.1	8228.7	10311.2	11930.3	12813.1	13809.0	14085.4	12954.8
67.5°	3265.5	3328.7	3904.1	4995.4	7168.4	9869.2	12018.4	13357.5	14672.8	14909.9	13267.0
70°	2356.5	2405.4	2999.8	3950.5	5837.7	9109.1	11982.7	13743.5	15120.7	15310.2	13031.1
72.5°	1113.9	1158.0	1856.1	2565.0	4123.3	7629.5	11259.5	13437.3	14665.6	14571.5	11587.2
75°	594.5	632.6	1066.3	1407.0	2177.8	5230.1	9214.0	11575.2	12315.1	11857.6	8563.5
77.5°	402.7	432.5	660.0	844.7	994.8	2482.8	5922.2	8014.3	7710.5	6955.2	4288.9
80°	319.3	350.3	540.9	571.9	481.3	897.1	2447.1	3709.9	2665.1	2131.3	1220.0
82.5°	245.4	280.0	455.1	414.6	262.1	368.1	712.4	1173.5	682.6	519.4	295.5
85°	150.1	187.0	357.4	264.5	147.7	168.0	241.8	326.4	208.5	173.9	106.0
87.5°	76.2	107.2	181.1	96.5	66.7	39.3	64.3	64.3	54.8	47.7	27.4
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°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3257.2	3281.0	3321.5	3359.6	3389.4	3418.0	3446.6	3462.1	3466.9	3485.9	3496.6
5°	3295.3	3339.4	3418.0	3491.9	3538.3	3566.9	3587.2	3599.1	3601.5	3607.4	3617.0
7.5°	3365.6	3435.9	3545.5	3619.3	3653.9	3651.5	3643.2	3613.4	3601.5	3590.8	3593.1
10°	3464.5	3557.4	3692.0	3743.2	3721.8	3664.6	3590.8	3503.8	3463.3	3424.0	3412.1
12.5°	3587.2	3705.1	3837.4	3835.0	3729.0	3582.4	3410.9	3277.4	3192.8	3132.1	3117.8
15°	3736.1	3871.9	3973.2	3892.2	3659.9	3396.6	3145.2	2971.2	2895.0	2828.3	2821.1
17.5°	3889.8	4035.1	4081.6	3874.3	3485.9	3121.4	2836.6	2699.6	2624.6	2588.8	2599.5
20°	4039.9	4184.1	4145.9	3771.8	3221.4	2809.2	2555.5	2480.4	2464.9	2473.3	2469.7
22.5°	4198.3	4327.0	4159.0	3574.1	2884.3	2489.9	2350.6	2352.9	2387.5	2412.5	2418.5
25°	4360.4	4447.3	4124.5	3288.2	2522.1	2255.2	2220.7	2258.8	2326.7	2375.6	2388.7
27.5°	4516.4	4554.6	4049.4	2934.3	2211.2	2087.3	2093.2	2171.8	2274.3	2342.2	2358.9
30°	4692.8	4649.9	3905.3	2536.4	1995.5	1943.1	1993.1	2084.9	2187.3	2248.1	2262.4
32.5°	4891.7	4732.1	3676.5	2168.3	1843.0	1827.5	1909.7	1969.3	2014.6	2032.5	2042.0
35°	5139.5	4847.6	3383.5	1909.7	1706.0	1743.0	1821.6	1791.8	1773.9	1764.4	1773.9
37.5°	5461.2	5003.7	3040.3	1741.8	1595.2	1682.2	1714.4	1621.4	1551.1	1516.6	1524.9
40°	5848.4	5232.4	2710.3	1611.9	1524.9	1629.8	1573.8	1461.8	1372.4	1323.6	1327.2
42.5°	6278.5	5471.9	2432.8	1514.2	1485.6	1586.9	1470.1	1336.7	1192.6	1177.1	1192.6
45°	6730.0	5718.5	2243.3	1439.2	1466.6	1550.0	1410.6	1194.9	1092.5	1155.6	1189.0
47.5°	7181.5	5944.9	2129.0	1383.2	1457.0	1508.3	1358.1	1116.3	1043.6	1135.4	1178.3
50°	7684.3	6147.4	2077.7	1342.7	1446.3	1491.6	1279.5	1096.1	992.4	1053.2	1098.4
52.5°	8183.4	6304.7	2039.6	1302.2	1430.8	1478.5	1241.4	1072.2	930.5	934.0	959.0
55°	8681.4	6407.1	1997.9	1248.5	1396.3	1449.9	1237.8	1046.0	884.0	867.3	879.2
57.5°	9212.8	6465.5	1946.7	1189.0	1336.7	1377.2	1234.2	1025.8	869.7	842.3	845.9
60°	9753.7	6551.3	1880.0	1116.3	1256.9	1290.2	1225.9	1018.6	861.4	814.9	818.5
62.5°	10238.5	6581.1	1800.1	1047.2	1154.4	1204.5	1208.0	1012.7	838.7	758.9	758.9
65°	10556.6	6452.4	1660.8	968.6	1043.6	1116.3	1173.5	992.4	798.2	718.4	718.4
67.5°	10543.5	6085.5	1442.7	867.3	936.4	1018.6	1123.5	957.9	749.4	668.4	671.9
70°	10052.7	5361.1	1166.3	749.4	818.5	913.8	1059.1	906.6	691.0	613.5	620.7
72.5°	8621.9	4196.0	847.1	611.2	681.5	805.4	975.7	844.7	631.4	564.7	561.1
75°	6159.3	2655.5	574.2	469.4	530.2	682.6	872.1	772.0	576.6	567.1	534.9
77.5°	3146.4	1268.8	380.0	343.1	369.3	538.5	732.7	689.8	585.0	468.2	417.0
80°	1023.4	468.2	239.5	233.5	245.4	358.6	567.1	565.9	443.2	318.1	281.2
82.5°	326.4	201.3	156.1	150.1	144.2	225.2	395.5	448.0	299.0	201.3	200.1
85°	129.9	120.3	91.7	84.6	60.8	106.0	207.3	297.8	222.8	145.3	148.9
87.5°	47.7	47.7	25.0	17.9	13.1	35.7	56.0	89.4	127.5	75.1	73.9
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)