

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: P949510

Luminaire Tested: **GALN-SB4B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949510
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-SB4B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21489 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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



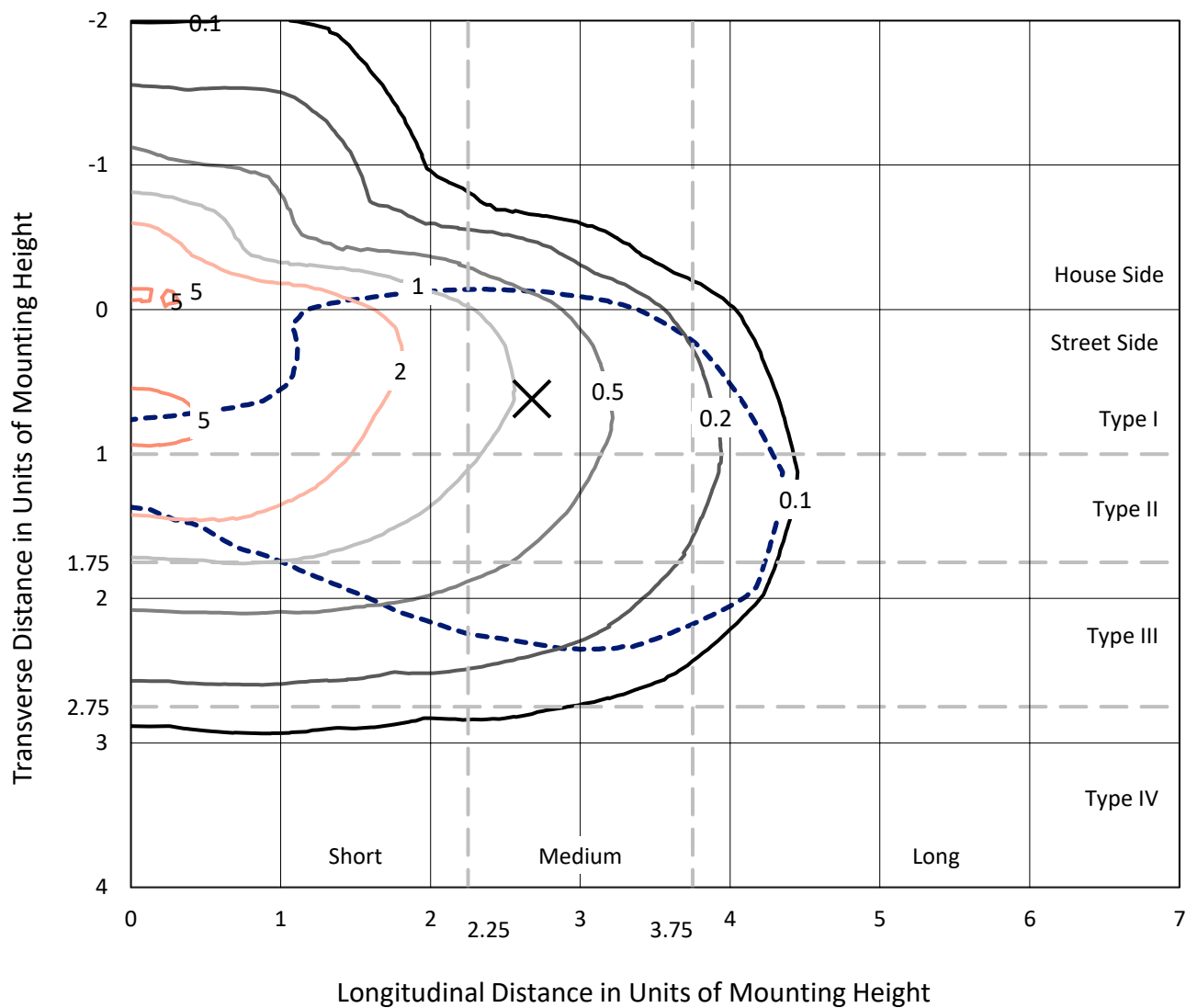
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

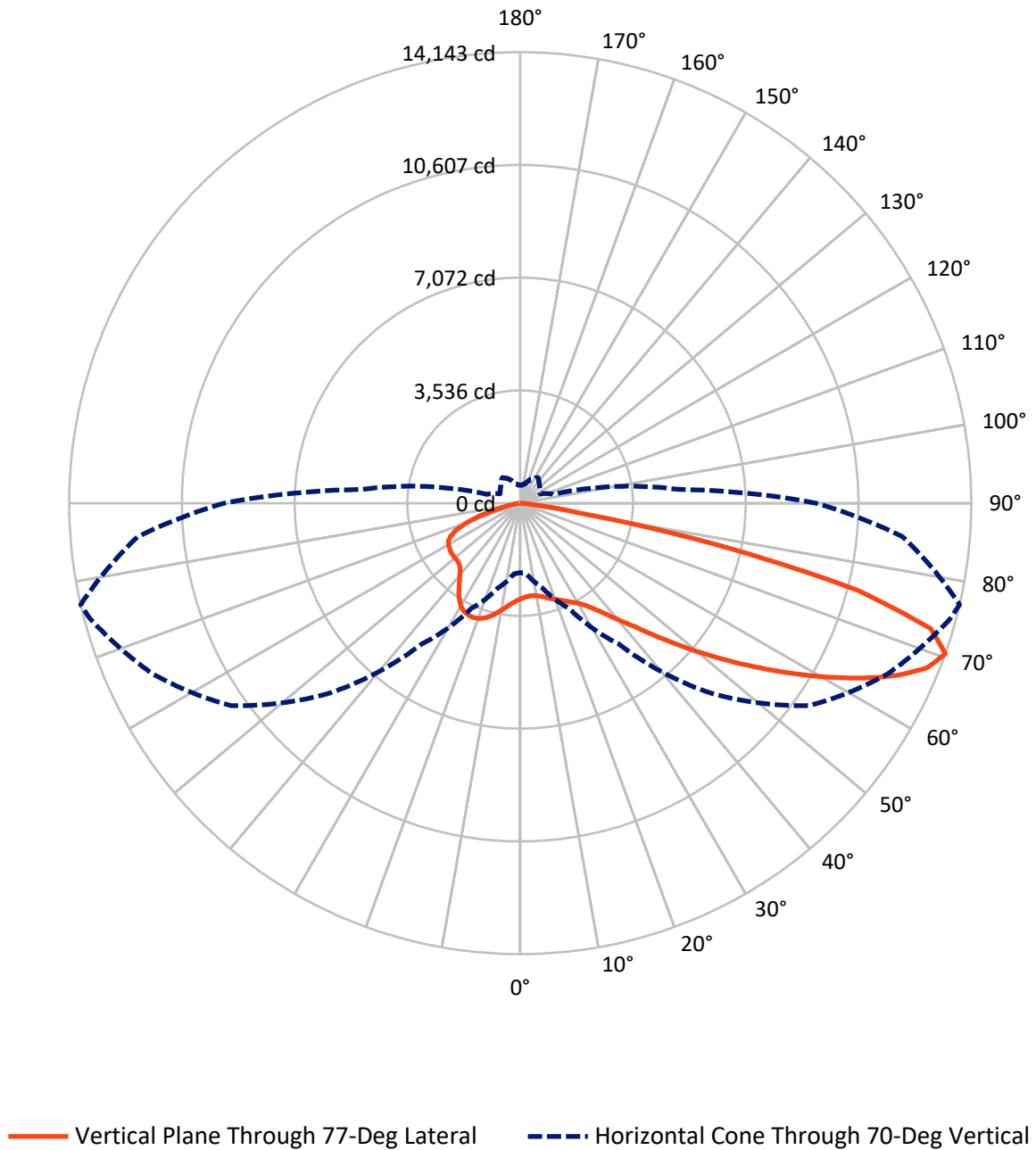
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4705.8	0.0	4705.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16783.2	0.0	16783.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	21489.0	0.0	21489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.3
10°-20°	825.2	3.8
20°-30°	1411.2	6.6
30°-40°	2269.3	10.6
40°-50°	3543.0	16.5
50°-60°	4732.7	22.0
60°-70°	5044.3	23.5
70°-80°	3105.2	14.5
80°-90°	272.1	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°	21489.0	100.0
0°-180°	21489.0	100.0

Coefficient of Utilization



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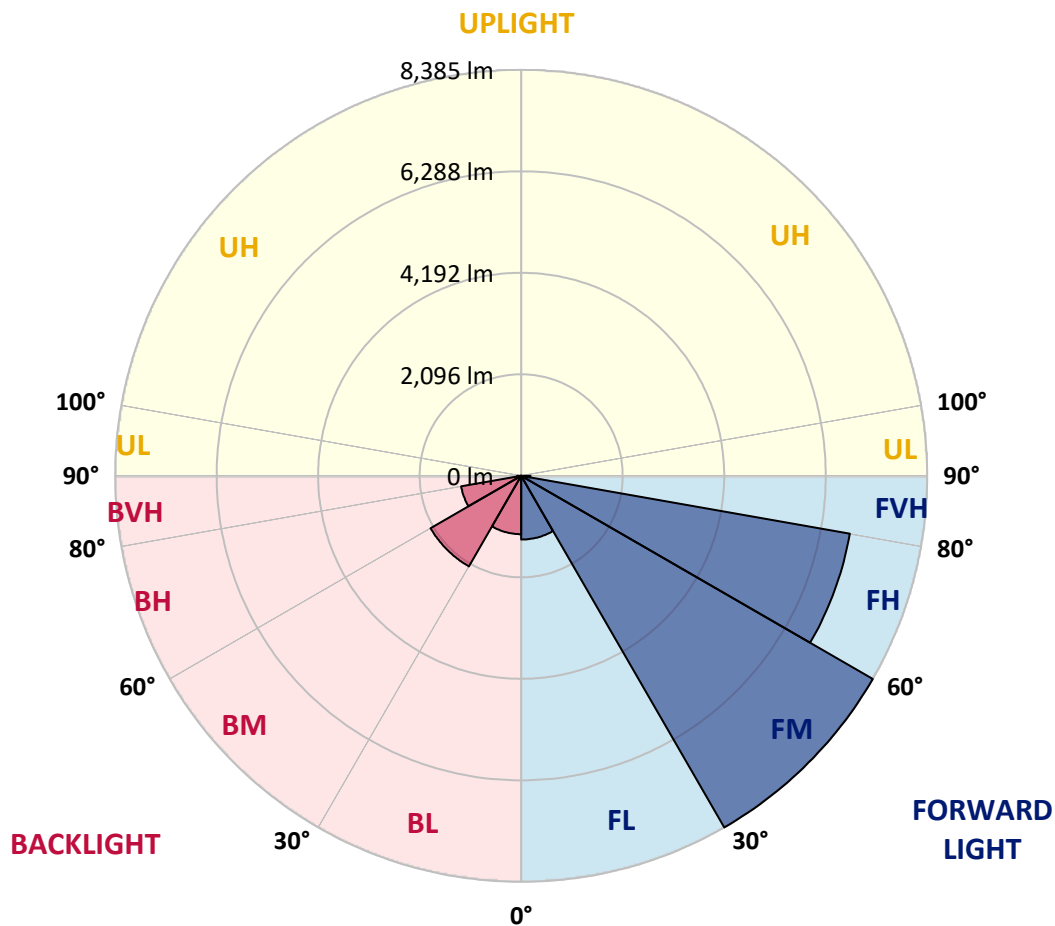
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.5	6.1			
FM	(30°-60°)	8384.5	39.0			
FH	(60°-80°)	6891.9	32.1			G3/7500
FVH	(80°-90°)	190.3	0.9			G2/225
BL	(0°-30°)	1205.8	5.6	B3/2500		
BM	(30°-60°)	2160.5	10.1	B2/2500		
BH	(60°-80°)	1257.6	5.9	B3/2500		G3/2500
BVH	(80°-90°)	81.8	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°	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9
2.5°	2763.5	2762.4	2776.7	2781.1	2807.5	2826.2	2861.4	2898.9	2947.3	2952.8	2982.5
5°	2603.9	2603.9	2620.4	2638.0	2672.1	2709.6	2763.5	2828.4	2912.1	2925.3	2999.0
7.5°	2468.5	2477.3	2491.7	2525.8	2565.4	2619.3	2701.9	2794.3	2904.4	2925.3	3044.1
10°	2359.6	2369.5	2387.1	2414.6	2474.0	2548.9	2656.7	2775.6	2923.1	2956.1	3110.2
12.5°	2325.5	2335.4	2345.3	2366.2	2421.2	2509.3	2638.0	2784.4	2968.2	3001.2	3200.4
15°	2404.7	2416.8	2409.1	2403.6	2432.2	2512.6	2646.8	2816.3	3024.3	3071.6	3311.6
17.5°	2587.4	2591.8	2574.2	2522.5	2518.1	2561.0	2688.7	2860.3	3094.8	3146.5	3423.8
20°	2882.4	2874.6	2838.3	2736.0	2677.7	2668.8	2760.2	2926.4	3167.4	3222.4	3544.9
22.5°	3283.0	3274.2	3201.5	3039.7	2909.9	2824.0	2863.6	3012.2	3248.8	3310.5	3662.6
25°	3782.6	3770.5	3663.7	3443.6	3242.2	3029.8	3004.5	3125.6	3349.0	3406.2	3785.9
27.5°	4365.9	4356.0	4240.4	3949.9	3659.3	3311.6	3179.5	3258.7	3453.5	3518.5	3924.6
30°	4993.2	5021.8	4817.1	4504.6	4137.0	3679.2	3415.0	3422.7	3588.9	3647.2	4093.0
32.5°	5730.6	5780.1	5533.6	5137.4	4635.5	4078.7	3712.2	3651.6	3785.9	3834.3	4305.4
35°	6461.4	6517.5	6312.8	5874.8	5297.0	4549.7	4022.5	3914.7	4047.8	4100.7	4587.1
37.5°	7093.1	7167.9	7062.3	6681.5	6004.6	5117.6	4427.5	4223.9	4370.3	4436.3	4965.7
40°	7591.6	7706.1	7698.4	7460.7	6838.8	5806.5	4941.5	4605.8	4770.9	4842.4	5424.6
42.5°	7996.6	8095.7	8181.5	8169.4	7709.4	6589.0	5545.7	5102.2	5227.6	5310.2	5940.8
45°	8276.2	8381.8	8566.7	8765.9	8546.9	7426.5	6237.9	5691.0	5805.4	5929.8	6556.0
47.5°	8526.0	8646.0	8885.9	9201.7	9257.9	8267.4	6996.2	6376.6	6481.2	6609.9	7173.4
50°	8548.0	8651.5	9023.4	9471.4	9763.0	9075.2	7810.6	7145.9	7243.9	7381.4	7834.9
52.5°	8016.4	8179.3	8828.7	9463.7	9995.2	9750.9	8619.5	7946.0	8056.1	8221.1	8519.4
55°	6222.5	6461.4	8257.5	9168.7	9912.7	10187.8	9388.8	8796.7	8937.6	9110.4	9208.3
57.5°	5359.7	5464.3	6554.9	8631.7	9536.3	10301.2	10038.2	9656.3	9883.0	10072.3	9936.9
60°	4817.1	4904.1	5549.0	7796.3	9041.1	10121.8	10540.0	10457.5	10849.3	11074.9	10682.0
62.5°	4236.0	4318.6	4905.2	6509.8	8407.1	9823.6	10857.0	11197.0	11839.8	12086.3	11384.1
65°	3659.3	3729.8	4292.2	5469.8	7601.5	9525.3	11021.0	11836.5	12756.5	13011.9	11967.4
67.5°	3016.6	3075.0	3606.5	4614.6	6622.0	9117.0	11102.4	12339.4	13554.4	13773.4	12255.8
70°	2176.9	2222.0	2771.2	3649.4	5392.7	8414.8	11069.4	12696.0	13968.2	14143.2	12037.9
72.5°	1029.0	1069.7	1714.7	2369.5	3809.0	7048.0	10401.3	12413.2	13547.8	13460.9	10704.0
75°	549.2	584.4	985.0	1299.8	2011.8	4831.4	8511.7	10693.0	11376.4	10953.8	7910.8
77.5°	372.0	399.5	609.7	780.3	919.0	2293.6	5470.9	7403.4	7122.8	6425.0	3962.0
80°	294.9	323.6	499.7	528.3	444.6	828.7	2260.5	3427.1	2461.9	1968.9	1127.0
82.5°	226.7	258.6	420.4	383.0	242.1	340.1	658.1	1084.0	630.6	479.8	272.9
85°	138.7	172.8	330.2	244.3	136.5	155.2	223.4	301.6	192.6	160.7	97.9
87.5°	70.4	99.0	167.3	89.1	61.6	36.3	59.4	59.4	50.6	44.0	25.3
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°	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9	2997.9
2.5°	3008.9	3030.9	3068.3	3103.6	3131.1	3157.5	3183.9	3198.2	3202.6	3220.2	3230.1
5°	3044.1	3084.9	3157.5	3225.7	3268.6	3295.1	3313.8	3324.8	3327.0	3332.5	3341.3
7.5°	3109.1	3174.0	3275.3	3343.5	3375.4	3373.2	3365.5	3338.0	3327.0	3317.1	3319.3
10°	3200.4	3286.3	3410.6	3457.9	3438.1	3385.3	3317.1	3236.7	3199.3	3163.0	3152.0
12.5°	3313.8	3422.7	3544.9	3542.7	3444.7	3309.4	3150.9	3027.6	2949.5	2893.4	2880.2
15°	3451.3	3576.8	3670.4	3595.5	3380.9	3137.7	2905.5	2744.8	2674.3	2612.7	2606.1
17.5°	3593.3	3727.6	3770.5	3579.0	3220.2	2883.5	2620.4	2493.9	2424.5	2391.5	2401.4
20°	3732.0	3865.1	3829.9	3484.4	2975.9	2595.1	2360.7	2291.4	2277.0	2284.8	2281.5
22.5°	3878.4	3997.2	3842.0	3301.7	2664.4	2300.2	2171.4	2173.6	2205.5	2228.6	2234.1
25°	4028.0	4108.4	3810.1	3037.5	2329.9	2083.4	2051.4	2086.7	2149.4	2194.5	2206.6
27.5°	4172.2	4207.4	3740.8	2710.7	2042.6	1928.2	1933.7	2006.3	2101.0	2163.7	2179.1
30°	4335.1	4295.5	3607.6	2343.1	1843.4	1795.0	1841.2	1926.0	2020.6	2076.7	2090.0
32.5°	4518.9	4371.4	3396.3	2003.0	1702.6	1688.3	1764.2	1819.2	1861.0	1877.5	1886.4
35°	4747.8	4478.2	3125.6	1764.2	1576.0	1610.1	1682.7	1655.2	1638.7	1629.9	1638.7
37.5°	5044.9	4622.3	2808.6	1609.0	1473.6	1554.0	1583.7	1497.9	1432.9	1401.0	1408.7
40°	5402.6	4833.6	2503.8	1489.1	1408.7	1505.6	1453.8	1350.4	1267.8	1222.7	1226.0
42.5°	5799.9	5054.8	2247.3	1398.8	1372.4	1465.9	1358.1	1234.8	1101.7	1087.3	1101.7
45°	6217.0	5282.7	2072.3	1329.5	1354.8	1431.8	1303.1	1103.9	1009.2	1067.5	1098.4
47.5°	6634.1	5491.8	1966.7	1277.7	1346.0	1393.3	1254.6	1031.2	964.1	1048.8	1088.4
50°	7098.6	5678.9	1919.4	1240.3	1336.1	1377.9	1182.0	1012.5	916.8	972.9	1014.7
52.5°	7559.7	5824.1	1884.1	1202.9	1321.8	1365.8	1146.8	990.5	859.5	862.8	885.9
55°	8019.7	5918.8	1845.6	1153.4	1289.9	1339.4	1143.5	966.3	816.6	801.2	812.2
57.5°	8510.6	5972.7	1798.3	1098.4	1234.8	1272.2	1140.2	947.6	803.4	778.1	781.4
60°	9010.2	6052.0	1736.7	1031.2	1161.1	1191.9	1132.5	941.0	795.7	752.8	756.1
62.5°	9458.2	6079.5	1662.9	967.4	1066.4	1112.7	1116.0	935.5	774.8	701.1	701.1
65°	9752.0	5960.6	1534.2	894.8	964.1	1031.2	1084.0	916.8	737.4	663.6	663.6
67.5°	9739.9	5621.6	1332.8	801.2	865.0	941.0	1037.8	884.8	692.2	617.4	620.7
70°	9286.5	4952.5	1077.4	692.2	756.1	844.1	978.4	837.5	638.3	566.8	573.4
72.5°	7964.7	3876.2	782.5	564.6	629.5	744.0	901.4	780.3	583.3	521.7	518.4
75°	5689.9	2453.1	530.5	433.6	489.7	630.6	805.6	713.2	532.7	523.9	494.1
77.5°	2906.6	1172.1	351.1	317.0	341.2	497.5	676.8	637.2	540.4	432.5	385.2
80°	945.4	432.5	221.2	215.7	226.7	331.3	523.9	522.8	409.4	293.8	259.7
82.5°	301.6	186.0	144.2	138.7	133.2	208.0	365.4	413.8	276.2	186.0	184.9
85°	120.0	111.2	84.7	78.1	56.1	97.9	191.5	275.1	205.8	134.3	137.6
87.5°	44.0	44.0	23.1	16.5	12.1	33.0	51.7	82.5	117.8	69.3	68.2
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)