

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: P953068

Luminaire Tested: **GALN-SB6D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56890 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



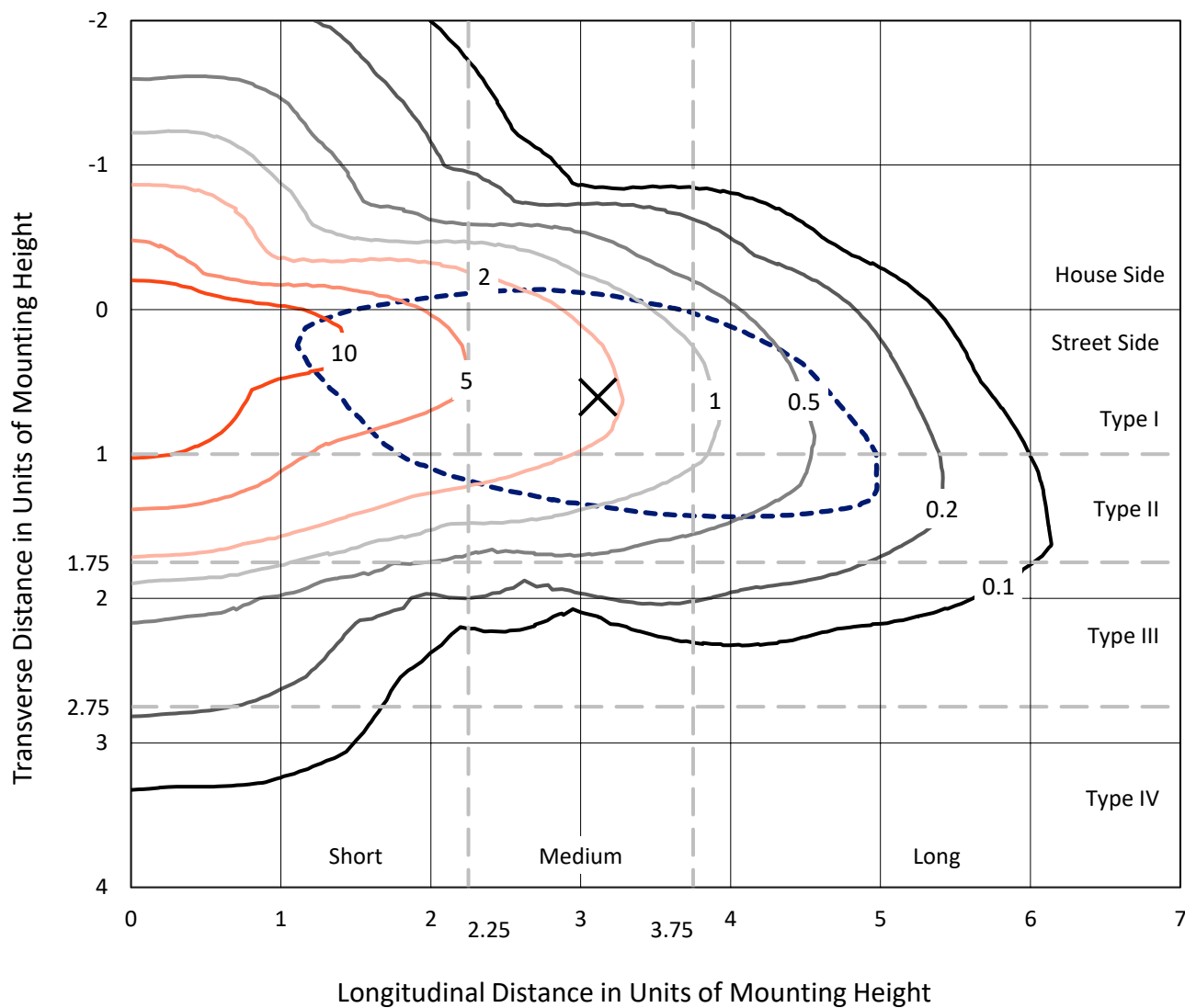
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

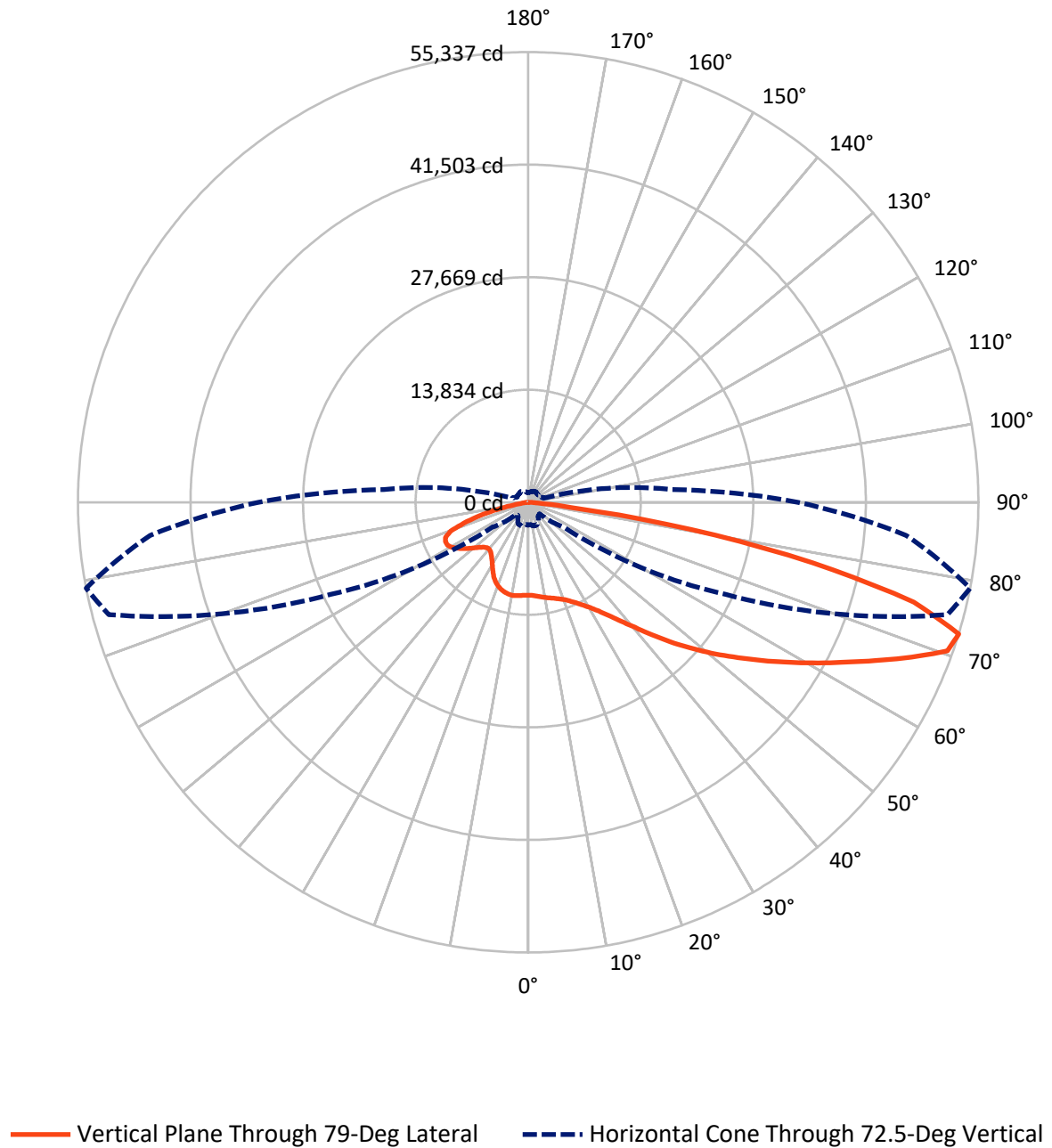


Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12518.9	0.0	12518.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	44371.1	0.0	44371.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	56890.0	0.0	56890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.6	1.8
10°-20°	2710.2	4.8
20°-30°	4373.2	7.7
30°-40°	6563.6	11.5
40°-50°	9310.8	16.4
50°-60°	11758.3	20.7
60°-70°	11942.2	21.0
70°-80°	8139.1	14.3
80°-90°	1056.0	1.9
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°	56890.0	100.0
0°-180°	56890.0	100.0

Coefficient of Utilization



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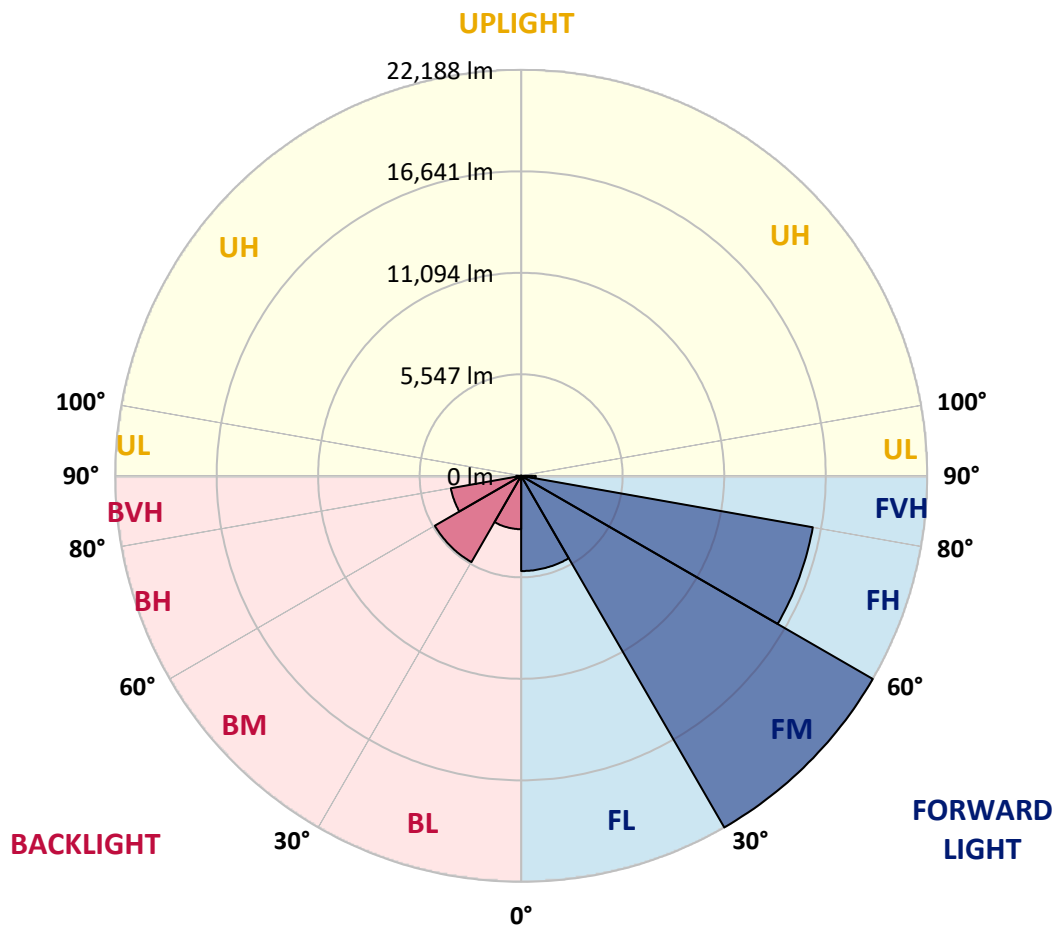
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5204.1	9.1			
FM	(30°-60°)	22188.3	39.0			
FH	(60°-80°)	16183.3	28.4			G5
FVH	(80°-90°)	795.5	1.4			G5
BL	(0°-30°)	2916.0	5.1	B4/5000		
BM	(30°-60°)	5444.4	9.6	B4/8500		
BH	(60°-80°)	3898.0	6.9	B4/5000		G4/5000
BVH	(80°-90°)	260.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1
2.5°	11426.1	11372.0	11405.1	11393.0	11408.1	11426.1	11432.2	11441.2	11471.3	11468.3	11465.3
5°	11402.1	11347.9	11393.0	11378.0	11417.1	11459.2	11495.4	11528.5	11576.6	11597.7	11567.6
7.5°	11350.9	11314.8	11359.9	11405.1	11477.3	11540.5	11591.7	11666.9	11736.1	11748.1	11769.2
10°	11053.0	11025.9	11131.2	11248.6	11447.2	11618.7	11730.1	11817.3	11892.6	11904.6	11934.7
12.5°	10743.0	10709.9	10827.3	10986.8	11308.8	11618.7	11853.5	11967.8	12034.0	12073.1	12118.3
15°	10691.9	10664.8	10731.0	10869.4	11137.3	11537.5	11937.7	12148.4	12205.5	12250.7	12268.7
17.5°	10938.6	10887.5	10914.6	10962.7	11119.2	11462.3	12003.9	12353.0	12440.3	12488.4	12488.4
20°	11510.4	11438.2	11396.1	11299.8	11272.7	11474.3	11997.9	12599.8	12714.1	12774.3	12789.3
22.5°	12271.7	12223.6	12133.3	11889.6	11624.8	11621.7	12112.3	12915.7	13129.4	13186.6	13150.4
25°	13192.6	13120.4	13006.0	12675.0	12166.4	11913.6	12304.8	13319.0	13677.1	13692.1	13586.8
27.5°	14251.8	14143.5	13987.0	13550.7	12864.6	12371.1	12599.8	13782.4	14306.0	14300.0	14083.3
30°	15368.3	15259.9	15094.4	14564.8	13701.1	12987.9	13009.0	14281.9	15052.3	15019.2	14649.1
32.5°	16183.8	16102.5	16069.4	15660.2	14664.1	13716.2	13478.5	14835.6	15973.1	15943.0	15425.4
35°	16809.7	16704.4	16743.5	16535.9	15714.3	14531.7	14053.2	15494.7	17092.6	17089.6	16445.6
37.5°	17429.6	17336.3	17369.4	17231.0	16686.3	15566.9	14754.4	16301.1	18479.8	18546.0	17679.4
40°	17995.4	17896.0	18028.5	17899.1	17441.6	16668.3	15551.8	17212.9	20086.8	20213.2	19172.0
42.5°	18335.4	18257.2	18476.8	18479.8	18097.7	17598.1	16427.5	18218.0	21946.5	22229.4	21007.6
45°	18452.8	18425.7	18756.7	18825.9	18678.5	18136.8	17216.0	19313.4	23950.7	24456.2	23099.0
47.5°	18326.4	18275.2	18732.6	18988.4	19105.8	18389.6	17869.0	20499.1	25997.0	26737.2	25380.1
50°	17688.4	17589.1	18269.2	18807.9	19226.1	18555.1	18528.0	21868.3	28323.1	29132.6	27673.1
52.5°	16541.9	16466.6	17240.0	18175.9	18961.3	18636.3	19268.3	23363.9	30531.9	31579.1	30023.3
55°	15076.4	14977.1	15828.7	17050.4	18302.3	18609.2	20008.5	25037.0	33137.9	34200.2	32451.8
57.5°	12753.2	12554.6	13631.9	15076.4	17228.0	18576.1	20778.9	26701.1	35786.1	37059.0	35042.8
60°	9364.8	9069.9	10391.0	12103.2	15127.5	18254.1	21732.8	28566.9	38963.8	40110.4	37871.5
62.5°	5452.8	5281.2	6144.9	7742.8	11402.1	16358.3	22268.5	30736.5	42087.5	43291.2	40652.0
65°	4234.0	4185.9	4261.1	4384.5	6346.5	12247.7	20616.4	32852.0	46059.7	46902.3	43550.0
67.5°	3872.9	3836.8	3869.9	3638.2	3219.9	6822.0	16310.2	33387.7	50314.8	50826.3	46086.8
70°	3442.6	3400.5	3508.8	3310.2	2533.8	3102.5	10538.4	31443.7	53700.2	54660.1	48015.7
72.5°	2804.6	2756.5	3009.3	2919.0	2133.6	1992.1	5293.3	26824.5	53345.1	55337.2	46634.4
75°	2154.6	2127.5	2428.5	2503.7	1739.3	1567.8	2539.8	19939.3	46944.4	48951.6	40191.6
77.5°	1673.1	1652.1	1805.6	2079.4	1402.3	1215.7	1561.8	12647.9	35376.8	35728.9	27697.2
80°	1254.9	1194.7	1336.1	1610.0	1092.4	887.7	1059.3	7375.7	22361.8	20270.3	12055.1
82.5°	785.4	755.3	872.7	1074.3	770.4	610.9	689.1	4074.5	8961.6	5278.2	2326.2
85°	448.4	436.3	475.5	613.9	418.3	352.1	394.2	1799.5	1637.0	1125.5	701.2
87.5°	180.6	174.5	216.7	273.8	153.5	129.4	138.4	433.3	361.1	334.0	231.7
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°	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1	11420.1
2.5°	11453.2	11453.2	11411.1	11344.9	11269.7	11221.5	11143.3	11122.2	11041.0	11016.9	11056.0
5°	11591.7	11567.6	11438.2	11251.6	10995.8	10761.1	10502.3	10339.8	10111.1	10029.9	10090.0
7.5°	11766.2	11700.0	11477.3	11068.0	10532.4	10005.8	9458.1	9042.8	8645.6	8504.2	8522.2
10°	11925.7	11832.4	11453.2	10737.0	9810.2	8898.4	8025.7	7414.8	6951.4	6761.8	6803.9
12.5°	12085.2	11913.6	11293.7	10186.3	8784.0	7547.2	6617.4	6141.9	5856.0	5627.3	5702.5
15°	12235.6	11994.9	11047.0	9449.1	7658.6	6403.7	5717.6	5338.4	5109.7	4959.3	4986.3
17.5°	12410.2	12064.1	10676.8	8513.2	6587.3	5612.3	5052.5	4823.8	4778.7	4760.6	4772.7
20°	12653.9	12127.3	10189.3	7466.0	5798.8	4980.3	4691.4	4670.4	4667.4	4658.3	4688.4
22.5°	12915.7	12202.5	9545.4	6515.0	5127.8	4586.1	4534.9	4492.8	4465.7	4462.7	4495.8
25°	13225.7	12226.6	8738.9	5735.6	4556.0	4399.5	4339.3	4276.2	4258.1	4258.1	4276.2
27.5°	13526.6	12145.4	7800.0	5058.6	4234.0	4228.0	4149.8	4128.7	4125.7	4134.7	4158.8
30°	13827.5	11991.9	6867.1	4432.6	4047.4	4047.4	4020.4	4035.4	4047.4	4077.5	4098.6
32.5°	14233.8	11829.4	6087.7	3969.2	3884.9	3854.9	3881.9	3912.0	3924.1	3963.2	3996.3
35°	14829.6	11715.0	5467.8	3716.4	3716.4	3677.3	3692.4	3686.3	3659.3	3641.2	3683.3
37.5°	15618.0	11709.0	4956.2	3599.1	3575.0	3569.0	3572.0	3532.9	3427.5	3301.2	3304.2
40°	16566.0	11871.5	4562.0	3517.8	3499.8	3535.9	3517.8	3412.5	3123.6	2903.9	2897.9
42.5°	17838.9	12334.9	4309.3	3418.5	3472.7	3517.8	3445.6	3081.5	2885.9	2738.4	2732.4
45°	19337.5	13087.3	4179.9	3313.2	3421.5	3475.7	3126.6	2967.1	2810.6	2633.1	2621.1
47.5°	21034.7	14035.2	4149.8	3213.9	3307.2	3340.3	2991.2	2919.0	2741.4	2548.8	2533.8
50°	22882.4	15157.6	4231.0	3096.5	3141.7	3027.3	2946.1	2879.9	2696.3	2506.7	2485.6
52.5°	24793.3	16394.4	4393.5	2937.0	2976.2	2849.8	2928.0	2870.8	2669.2	2413.4	2395.4
55°	26671.0	17640.3	4550.0	2750.5	2807.6	2690.3	2876.8	2834.7	2545.8	2256.9	2241.9
57.5°	28578.9	18880.1	4703.5	2585.0	2645.1	2536.8	2795.6	2738.4	2407.4	2112.5	2106.5
60°	30562.0	20083.8	4775.7	2425.5	2467.6	2395.4	2672.2	2572.9	2250.9	1965.0	1956.0
62.5°	32418.7	21085.9	4658.3	2266.0	2293.1	2263.0	2509.7	2377.3	2094.4	1799.5	1796.5
65°	34281.4	21681.7	4297.2	2109.5	2115.5	2100.5	2281.0	2166.7	1910.9	1655.1	1637.0
67.5°	35969.6	22015.7	3722.4	1941.0	1925.9	1919.9	2067.4	1938.0	1733.3	1510.6	1492.6
70°	36327.7	21167.1	2843.7	1742.4	1742.4	1727.3	1832.6	1700.2	1537.7	1357.2	1351.2
72.5°	33180.1	17805.8	2019.2	1516.7	1540.7	1510.6	1597.9	1486.6	1339.1	1218.7	1182.6
75°	26755.3	13057.2	1468.5	1285.0	1327.1	1275.9	1357.2	1278.9	1152.5	1149.5	1035.2
77.5°	18383.5	8073.8	1065.3	1059.3	1089.4	1023.1	1116.4	1074.3	960.0	908.8	851.6
80°	7845.1	3219.9	776.4	818.5	818.5	758.3	866.7	878.7	779.4	755.3	755.3
82.5°	1561.8	914.8	544.7	562.7	529.6	511.6	613.9	680.1	938.9	1044.2	1047.2
85°	469.4	337.0	328.0	306.9	270.8	273.8	361.1	683.1	842.6	481.5	415.3
87.5°	129.4	84.3	87.3	69.2	57.2	75.2	123.4	517.6	282.9	120.4	102.3
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)