

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: P951619

Luminaire Tested: **GALN-SB5D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951619
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-SB5D-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 42207 lumens
Efficiency: N/A
Efficacy: 115.7 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): 364.9
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



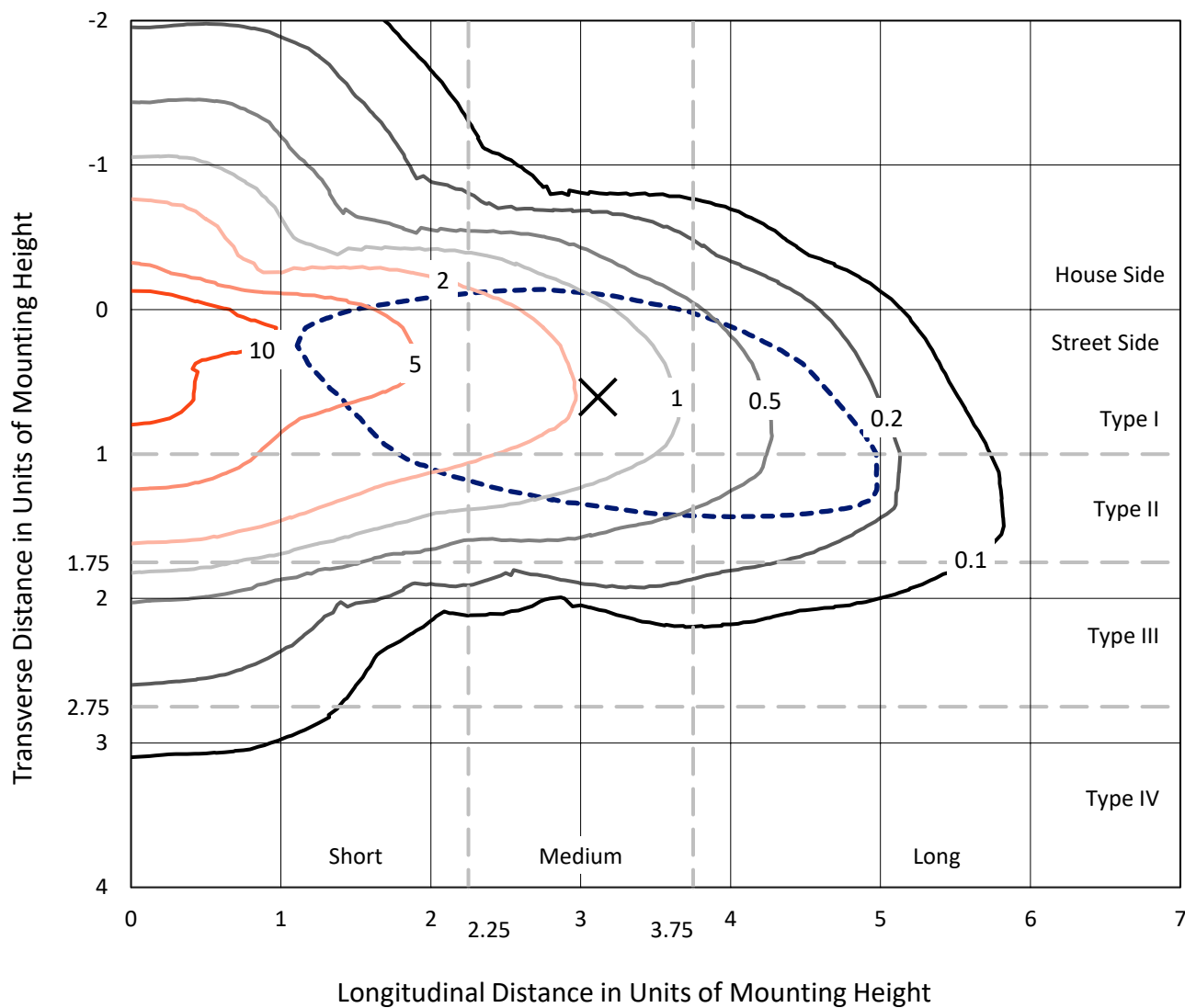
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

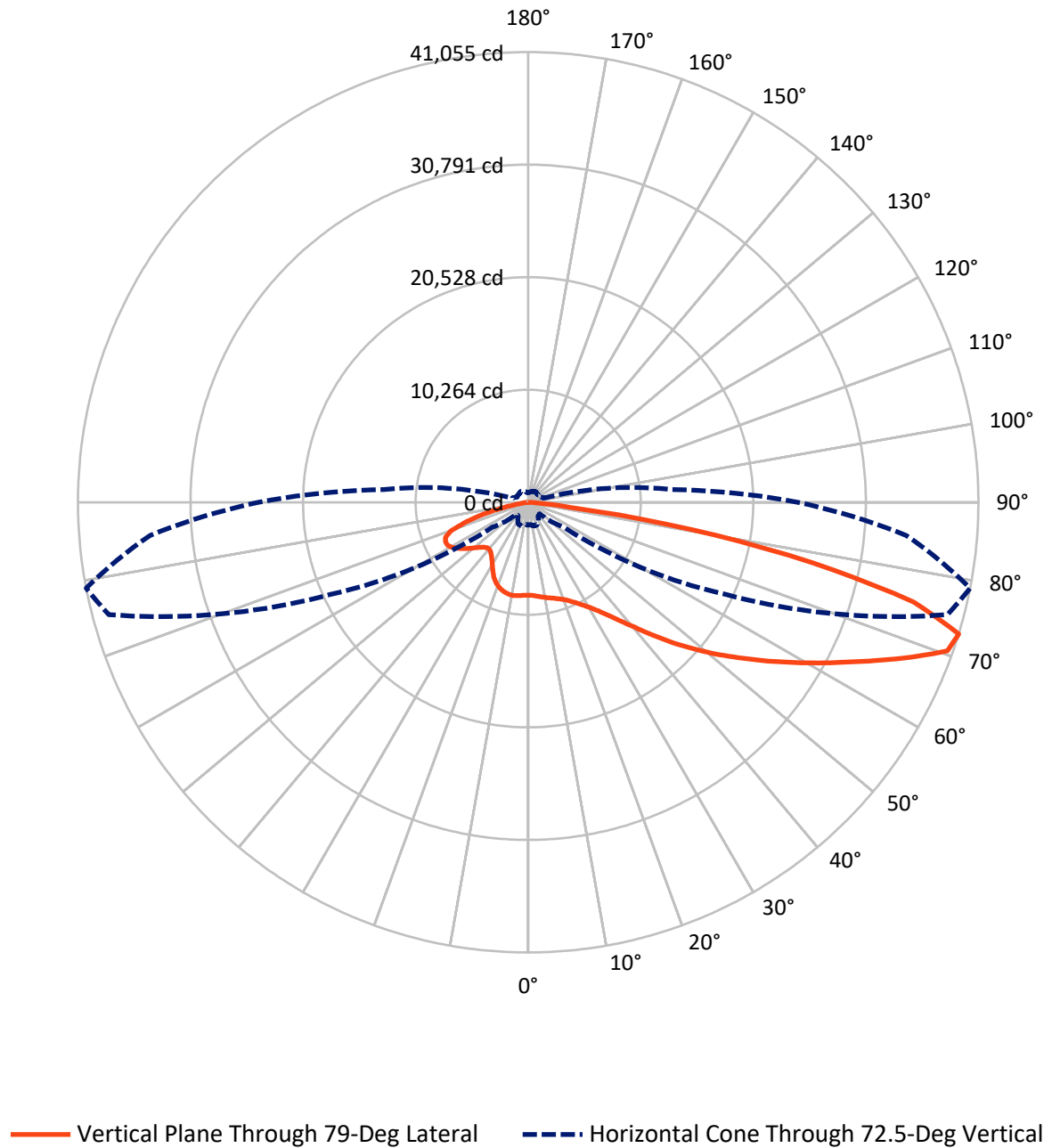
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	9287.9	0.0	9287.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32919.1	0.0	32919.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	42207.0	0.0	42207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.1	1.8
10°-20°	2010.7	4.8
20°-30°	3244.5	7.7
30°-40°	4869.6	11.5
40°-50°	6907.7	16.4
50°-60°	8723.5	20.7
60°-70°	8859.9	21.0
70°-80°	6038.5	14.3
80°-90°	783.4	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°	42207.0	100.0
0°-180°	42207.0	100.0

Coefficient of Utilization



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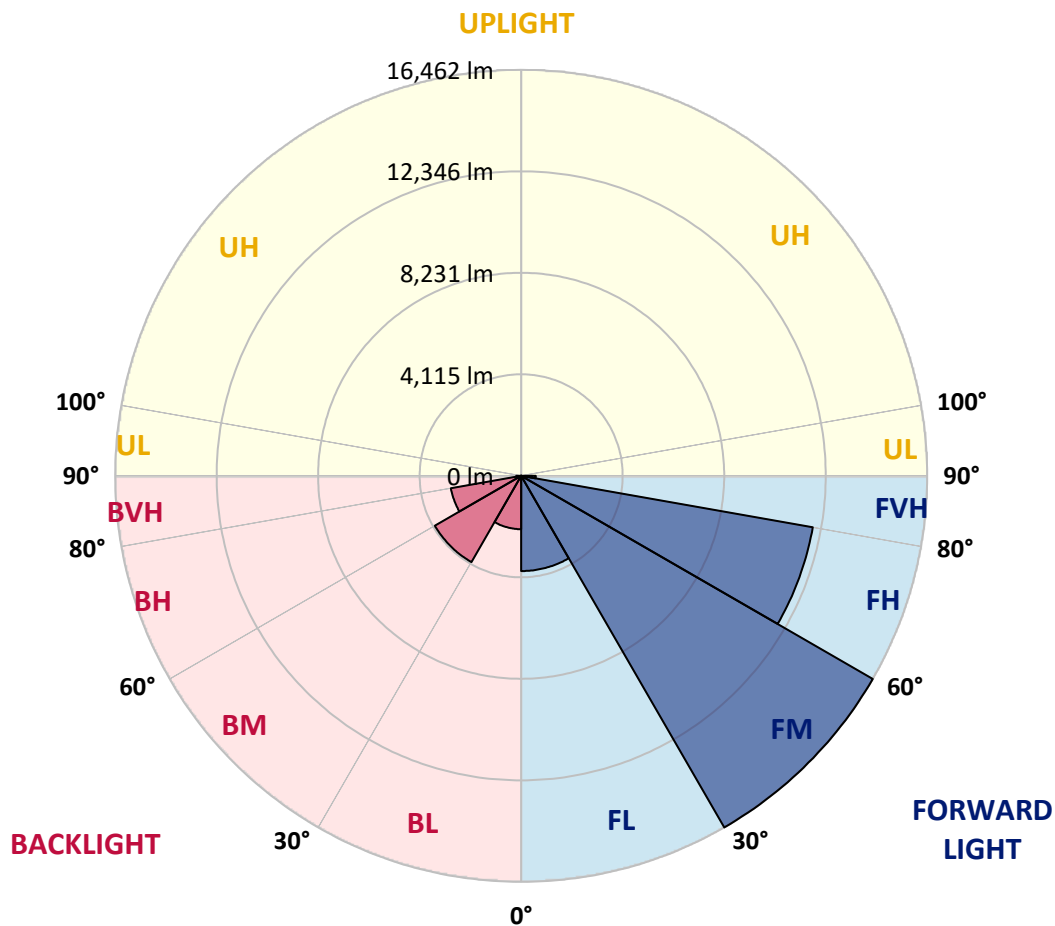
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3860.9	9.1			
FM	(30°-60°)	16461.6	39.0			
FH	(60°-80°)	12006.5	28.4			G5
FVH	(80°-90°)	590.2	1.4			G4/750
BL	(0°-30°)	2163.4	5.1	B3/2500		
BM	(30°-60°)	4039.2	9.6	B3/5000		
BH	(60°-80°)	2891.9	6.9	B4/5000		G4/5000
BVH	(80°-90°)	193.3	0.5			G2/225
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°	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7
2.5°	8477.1	8436.9	8461.5	8452.6	8463.7	8477.1	8481.6	8488.3	8510.6	8508.4	8506.1
5°	8459.3	8419.1	8452.6	8441.4	8470.4	8501.7	8528.5	8553.0	8588.7	8604.4	8582.1
7.5°	8421.3	8394.5	8428.0	8461.5	8515.1	8562.0	8599.9	8655.7	8707.1	8716.0	8731.6
10°	8200.3	8180.2	8258.3	8345.4	8492.7	8620.0	8702.6	8767.4	8823.2	8832.1	8854.4
12.5°	7970.3	7945.8	8032.8	8151.2	8390.0	8620.0	8794.1	8879.0	8928.1	8957.1	8990.6
15°	7932.4	7912.3	7961.4	8064.1	8262.8	8559.7	8856.7	9012.9	9055.4	9088.8	9102.2
17.5°	8115.4	8077.5	8097.6	8133.3	8249.4	8503.9	8905.8	9164.8	9229.5	9265.2	9265.2
20°	8539.6	8486.0	8454.8	8383.4	8363.3	8512.8	8901.3	9347.8	9432.7	9477.3	9488.5
22.5°	9104.5	9068.8	9001.8	8820.9	8624.5	8622.2	8986.1	9582.2	9740.8	9783.2	9756.4
25°	9787.6	9734.1	9649.2	9403.6	9026.3	8838.8	9129.0	9881.4	10147.1	10158.3	10080.1
27.5°	10573.5	10493.1	10377.0	10053.3	9544.3	9178.2	9347.8	10225.2	10613.7	10609.2	10448.5
30°	11401.8	11321.4	11198.6	10805.7	10165.0	9635.8	9651.5	10595.8	11167.4	11142.8	10868.2
32.5°	12006.8	11946.6	11922.0	11618.4	10879.4	10176.1	9999.7	11006.6	11850.6	11828.2	11444.2
35°	12471.2	12393.1	12422.1	12268.0	11658.6	10781.1	10426.2	11495.6	12681.1	12678.8	12201.1
37.5°	12931.1	12861.9	12886.5	12783.8	12379.7	11549.2	10946.4	12093.9	13710.3	13759.4	13116.4
40°	13350.8	13277.2	13375.4	13279.4	12940.1	12366.3	11538.0	12770.4	14902.5	14996.3	14223.8
42.5°	13603.1	13545.1	13708.1	13710.3	13426.8	13056.1	12187.7	13516.1	16282.2	16492.1	15585.7
45°	13690.2	13670.1	13915.7	13967.0	13857.6	13455.8	12772.6	14328.7	17769.1	18144.2	17137.3
47.5°	13596.4	13558.5	13897.8	14087.6	14174.7	13643.3	13257.1	15208.4	19287.3	19836.5	18829.6
50°	13123.1	13049.4	13554.0	13953.6	14264.0	13766.1	13746.0	16224.2	21013.1	21613.6	20530.8
52.5°	12272.5	12216.7	12790.5	13484.8	14067.5	13826.4	14295.2	17333.8	22651.8	23428.7	22274.5
55°	11185.2	11111.6	11743.4	12649.8	13578.6	13806.3	14844.4	18575.1	24585.2	25373.3	24076.2
57.5°	9461.7	9314.3	10113.6	11185.2	12781.5	13781.7	15416.0	19809.7	26549.9	27494.3	25998.4
60°	6947.8	6729.0	7709.1	8979.5	11223.2	13542.9	16123.7	21193.9	28907.5	29758.1	28097.1
62.5°	4045.4	3918.2	4558.9	5744.4	8459.3	12136.3	16521.1	22803.6	31224.9	32117.9	30160.0
65°	3141.2	3105.5	3161.3	3252.9	4708.5	9086.6	15295.4	24373.1	34171.9	34797.0	32309.9
67.5°	2873.3	2846.5	2871.1	2699.2	2388.9	5061.3	12100.6	24770.5	37328.8	37708.3	34192.0
70°	2554.1	2522.8	2603.2	2455.8	1879.8	2301.8	7818.5	23328.3	39840.5	40552.6	35623.1
72.5°	2080.8	2045.0	2232.6	2165.6	1582.9	1478.0	3927.1	19901.2	39577.0	41055.0	34598.3
75°	1598.5	1578.4	1801.7	1857.5	1290.4	1163.2	1884.3	14793.1	34828.3	36317.4	29818.4
77.5°	1241.3	1225.7	1339.6	1542.7	1040.4	902.0	1158.7	9383.5	26246.3	26507.5	20548.7
80°	931.0	886.3	991.3	1194.4	810.4	658.6	785.9	5472.1	16590.3	15038.7	8943.7
82.5°	582.7	560.4	647.4	797.0	571.5	453.2	511.3	3022.9	6648.6	3916.0	1725.8
85°	332.7	323.7	352.7	455.4	310.3	261.2	292.5	1335.1	1214.5	835.0	520.2
87.5°	134.0	129.5	160.7	203.2	113.9	96.0	102.7	321.5	267.9	247.8	171.9
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°	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7	8472.7
2.5°	8497.2	8497.2	8466.0	8416.8	8361.0	8325.3	8267.3	8251.6	8191.3	8173.5	8202.5
5°	8599.9	8582.1	8486.0	8347.6	8157.9	7983.7	7791.7	7671.2	7501.5	7441.2	7485.9
7.5°	8729.4	8680.3	8515.1	8211.4	7814.0	7423.3	7017.0	6708.9	6414.2	6309.3	6322.7
10°	8847.7	8778.5	8497.2	7965.9	7278.2	6601.7	5954.3	5501.1	5157.3	5016.6	5047.9
12.5°	8966.1	8838.8	8378.9	7557.3	6516.9	5599.3	4909.5	4556.7	4344.6	4174.9	4230.7
15°	9077.7	8899.1	8195.8	7010.3	5681.9	4750.9	4241.9	3960.6	3790.9	3679.3	3699.4
17.5°	9207.2	8950.4	7921.2	6316.0	4887.1	4163.8	3748.5	3578.8	3545.3	3531.9	3540.9
20°	9388.0	8997.3	7559.5	5539.0	4302.2	3694.9	3480.6	3465.0	3462.7	3456.0	3478.4
22.5°	9582.2	9053.1	7081.8	4833.5	3804.3	3402.5	3364.5	3333.2	3313.2	3310.9	3335.5
25°	9812.2	9071.0	6483.4	4255.3	3380.1	3264.0	3219.4	3172.5	3159.1	3159.1	3172.5
27.5°	10035.5	9010.7	5786.9	3753.0	3141.2	3136.8	3078.7	3063.1	3060.9	3067.6	3085.4
30°	10258.7	8896.8	5094.8	3288.6	3002.8	3002.8	2982.7	2993.9	3002.8	3025.2	3040.8
32.5°	10560.1	8776.3	4516.5	2944.8	2882.3	2859.9	2880.0	2902.4	2911.3	2940.3	2964.9
35°	11002.2	8691.4	4056.6	2757.2	2757.2	2728.2	2739.4	2734.9	2714.8	2701.4	2732.7
37.5°	11587.1	8687.0	3677.1	2670.2	2652.3	2647.8	2650.1	2621.1	2542.9	2449.1	2451.4
40°	12290.4	8807.5	3384.6	2609.9	2596.5	2623.3	2609.9	2531.7	2317.4	2154.4	2150.0
42.5°	13234.8	9151.4	3197.1	2536.2	2576.4	2609.9	2556.3	2286.2	2141.0	2031.7	2027.2
45°	14346.6	9709.5	3101.1	2458.1	2538.4	2578.6	2319.7	2201.3	2085.2	1953.5	1944.6
47.5°	15605.8	10412.8	3078.7	2384.4	2453.6	2478.2	2219.2	2165.6	2033.9	1891.0	1879.8
50°	16976.6	11245.5	3139.0	2297.3	2330.8	2246.0	2185.7	2136.6	2000.4	1859.7	1844.1
52.5°	18394.3	12163.1	3259.6	2179.0	2208.0	2114.3	2172.3	2129.9	1980.3	1790.5	1777.1
55°	19787.4	13087.4	3375.7	2040.6	2083.0	1995.9	2134.3	2103.1	1888.8	1674.4	1663.3
57.5°	21202.8	14007.2	3489.5	1917.8	1962.4	1882.1	2074.1	2031.7	1786.1	1567.3	1562.8
60°	22674.1	14900.3	3543.1	1799.5	1830.7	1777.1	1982.5	1908.9	1670.0	1457.9	1451.2
62.5°	24051.6	15643.7	3456.0	1681.1	1701.2	1678.9	1862.0	1763.7	1553.9	1335.1	1332.9
65°	25433.6	16085.8	3188.1	1565.0	1569.5	1558.3	1692.3	1607.5	1417.7	1227.9	1214.5
67.5°	26686.1	16333.6	2761.7	1440.0	1428.9	1424.4	1533.8	1437.8	1286.0	1120.8	1107.4
70°	26951.7	15704.0	2109.8	1292.7	1292.7	1281.5	1359.6	1261.4	1140.9	1006.9	1002.4
72.5°	24616.5	13210.2	1498.1	1125.2	1143.1	1120.8	1185.5	1102.9	993.5	904.2	877.4
75°	19849.9	9687.2	1089.5	953.3	984.6	946.6	1006.9	948.8	855.1	852.8	768.0
77.5°	13638.9	5990.0	790.3	785.9	808.2	759.1	828.3	797.0	712.2	674.2	631.8
80°	5820.3	2388.9	576.0	607.3	607.3	562.6	643.0	651.9	578.2	560.4	560.4
82.5°	1158.7	678.7	404.1	417.5	392.9	379.5	455.4	504.6	696.6	774.7	776.9
85°	348.3	250.0	243.4	227.7	200.9	203.2	267.9	506.8	625.1	357.2	308.1
87.5°	96.0	62.5	64.7	51.3	42.4	55.8	91.5	384.0	209.9	89.3	75.9
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)