

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: P944165

Luminaire Tested: **GALN-SB9A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37550 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 255.5
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



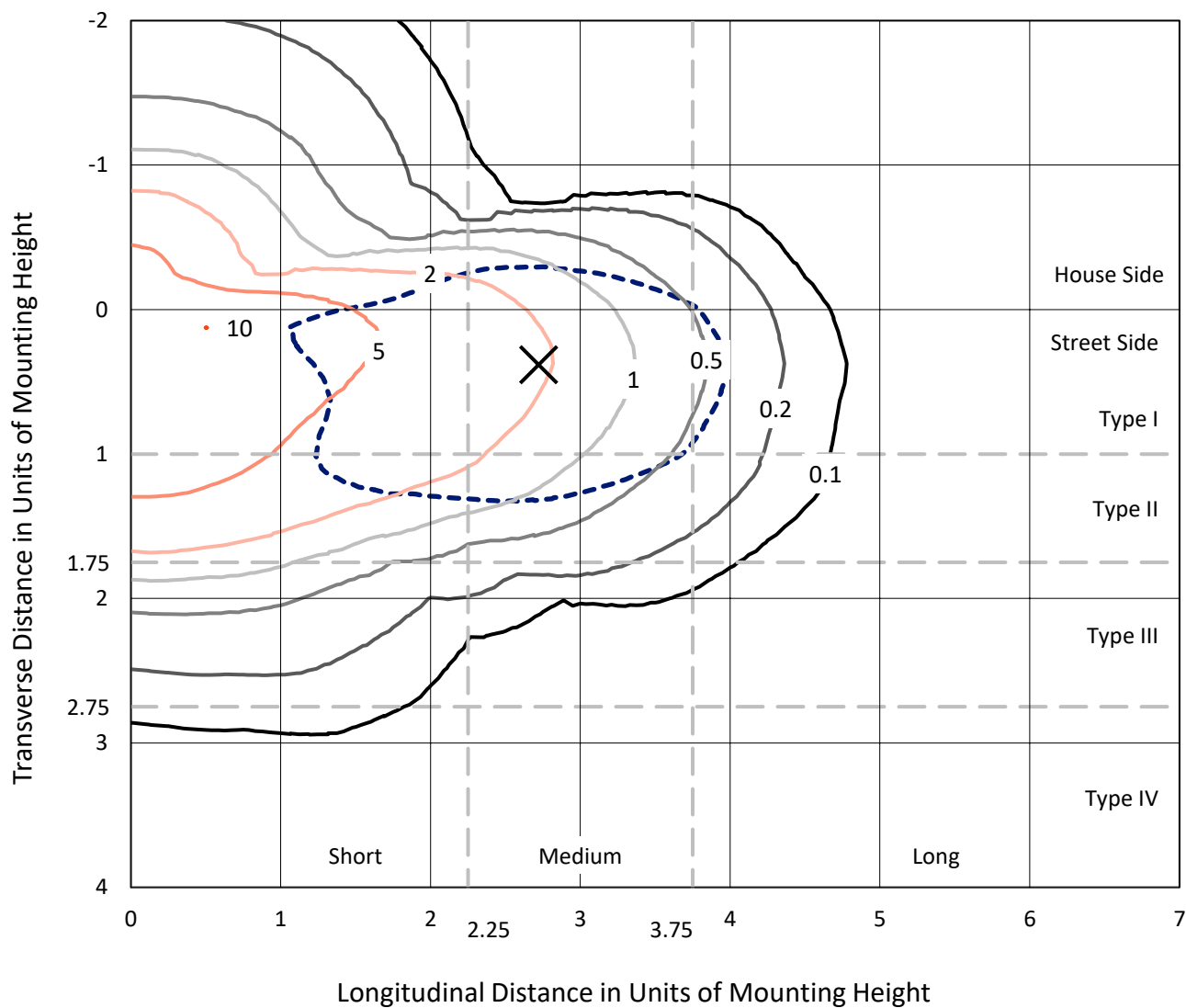
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Iso-Footcandle Lines of Horizontal Illumination

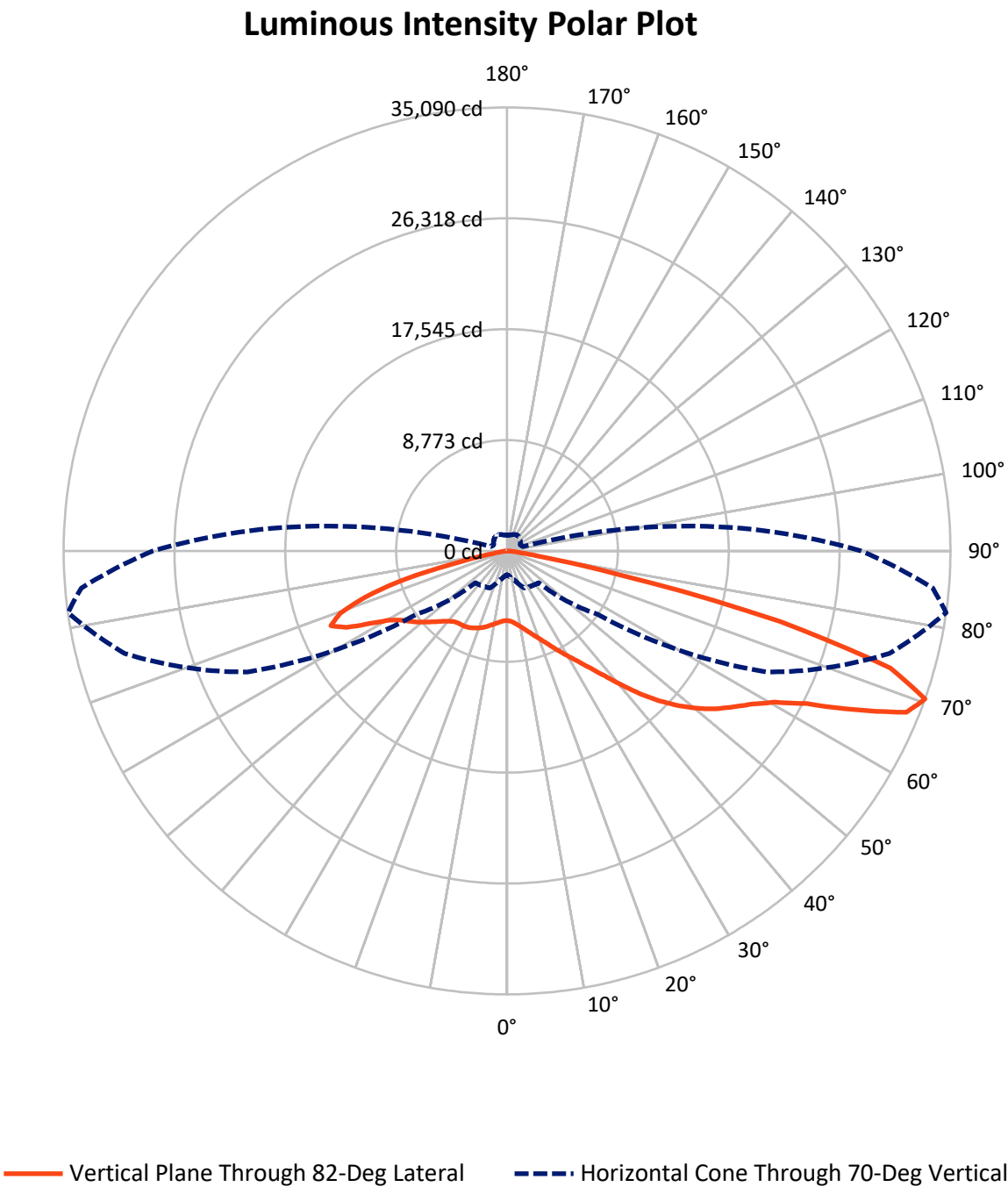
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9257.0	0.0	9257.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28293.0	0.0	28293.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	37550.0	0.0	37550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.8	1.4
10°-20°	1493.4	4.0
20°-30°	2498.3	6.7
30°-40°	3903.0	10.4
40°-50°	6216.0	16.6
50°-60°	8650.4	23.0
60°-70°	9048.7	24.1
70°-80°	4729.3	12.6
80°-90°	491.1	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°	37550.0	100.0
0°-180°	37550.0	100.0

Coefficient of Utilization



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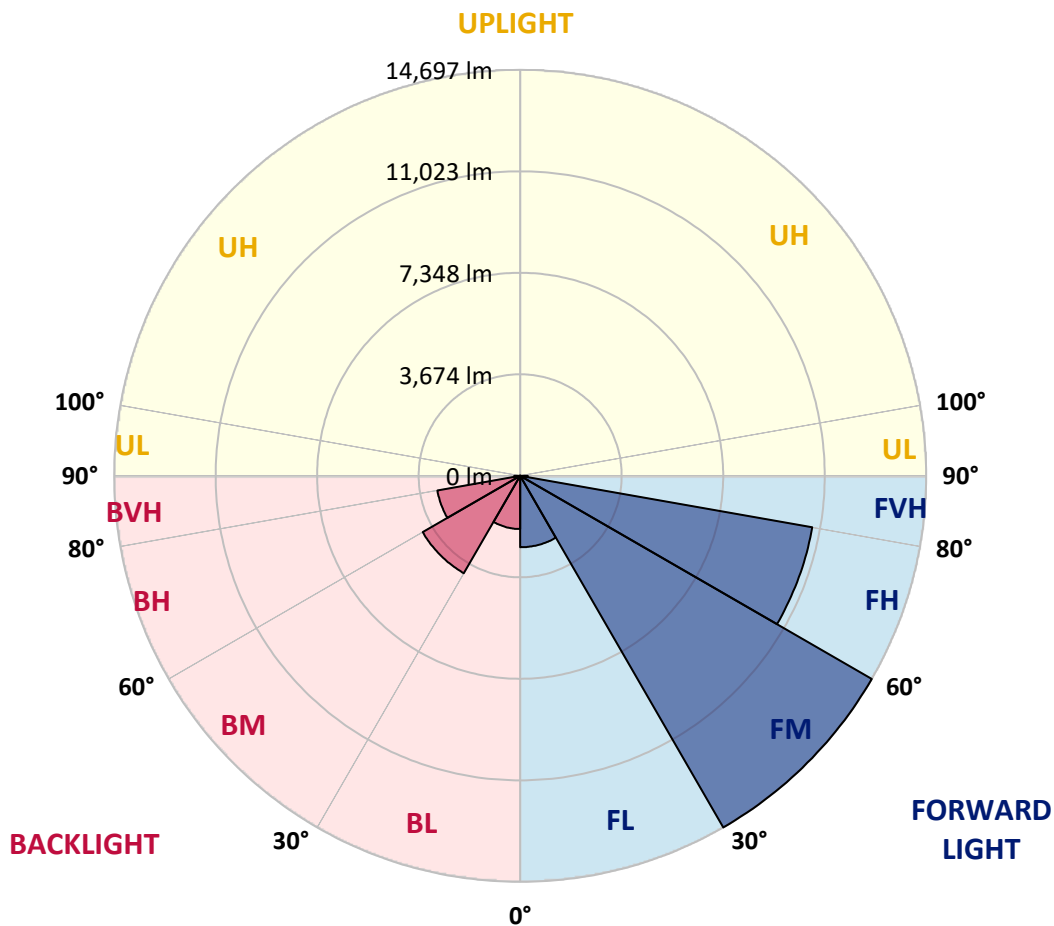
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2585.7	6.9			
FM	(30°-60°)	14696.7	39.1			
FH	(60°-80°)	10735.7	28.6			G4/12000
FVH	(80°-90°)	274.9	0.7			G3/500
BL	(0°-30°)	1925.8	5.1	B3/2500		
BM	(30°-60°)	4072.7	10.8	B3/5000		
BH	(60°-80°)	3042.3	8.1	B4/5000		G4/5000
BVH	(80°-90°)	216.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3
2.5°	5636.8	5668.7	5658.7	5648.8	5648.8	5634.8	5632.8	5612.9	5597.0	5571.1	5565.1
5°	5708.5	5742.4	5738.4	5746.4	5772.3	5778.3	5784.3	5772.3	5740.4	5708.5	5694.6
7.5°	5644.8	5682.6	5694.6	5742.4	5822.1	5893.8	5947.6	5969.6	5939.7	5893.8	5871.9
10°	5429.6	5471.4	5513.3	5626.8	5768.3	5937.7	6081.1	6166.8	6160.8	6117.0	6079.1
12.5°	4993.2	5037.1	5126.7	5347.9	5606.9	5905.8	6172.8	6352.1	6413.9	6382.0	6316.3
15°	4644.5	4682.4	4750.1	4977.3	5314.0	5768.3	6206.7	6555.4	6712.8	6694.8	6615.1
17.5°	4634.6	4650.5	4692.4	4800.0	5059.0	5553.1	6170.8	6754.6	7055.5	7053.5	6953.9
20°	4809.9	4815.9	4839.8	4861.7	5009.2	5389.7	6079.1	6920.0	7440.0	7440.0	7332.4
22.5°	5053.0	5049.0	5072.9	5053.0	5124.7	5375.8	6021.4	7065.4	7868.4	7900.3	7764.8
25°	5417.6	5397.7	5391.7	5345.9	5359.8	5505.3	6085.1	7230.8	8376.5	8442.3	8272.9
27.5°	5903.8	5871.9	5850.0	5744.4	5708.5	5772.3	6280.4	7430.1	8942.4	9055.9	8840.8
30°	6537.4	6479.6	6447.8	6264.4	6134.9	6144.9	6575.3	7695.1	9534.2	9717.5	9444.5
32.5°	7402.2	7312.5	7226.8	6926.0	6688.8	6611.1	6955.8	8061.7	10175.7	10468.6	10118.0
35°	8370.5	8298.8	8207.1	7742.9	7378.3	7198.9	7469.9	8573.8	10926.9	11391.2	10934.9
37.5°	9303.0	9241.3	9285.1	8659.4	8189.2	7928.2	8143.4	9261.2	11853.4	12538.9	11959.0
40°	10267.4	10219.6	10225.6	9627.8	9079.9	8787.0	8960.3	10123.9	12915.4	13903.7	13190.4
42.5°	11315.5	11279.6	11160.0	10630.0	10014.3	9741.4	9900.8	11120.2	14055.2	15457.9	14541.3
45°	12489.0	12467.1	12355.5	11747.8	11042.5	10735.6	10950.8	12220.1	15200.8	16920.4	15898.2
47.5°	13503.2	13521.2	13507.2	12995.1	12263.9	11813.6	12070.6	13367.7	16266.8	18295.2	17199.3
50°	13991.4	14085.0	14222.5	14063.1	13608.8	13150.6	13200.4	14475.6	17283.0	19584.4	18446.6
52.5°	13736.4	13913.7	14288.3	14543.3	14718.7	14623.0	14489.5	15575.4	18239.4	20748.0	19626.2
55°	12785.9	13035.0	13656.6	14272.3	15167.0	15862.4	16037.7	16794.8	19171.9	21772.1	20742.0
57.5°	11054.4	11458.9	12016.8	13262.1	14768.5	16462.1	17842.9	18486.5	20160.2	22866.0	21909.6
60°	8085.6	8627.6	9321.0	11174.0	13373.7	16141.3	19379.1	21084.7	21564.9	24282.7	23429.9
62.5°	5174.5	5509.3	6146.9	7892.3	10420.8	14497.5	19849.4	24332.5	23946.0	26606.0	25709.3
65°	3542.7	3757.9	4341.7	5322.0	6736.7	10791.4	18590.1	26767.4	27727.7	30288.1	29606.7
67.5°	2574.3	2737.7	3235.8	4094.6	4389.5	6386.0	14425.8	26655.8	31403.9	34081.8	33021.8
70°	1876.9	1992.5	2410.9	3235.8	3377.3	3552.6	8739.1	22658.8	31324.2	35090.1	33820.8
72.5°	1390.8	1470.5	1751.4	2510.6	2733.7	2399.0	4325.7	16468.1	26916.8	31738.7	30720.5
75°	1006.2	1066.0	1273.2	1920.8	2187.8	1827.1	2157.9	9623.8	18775.4	22326.1	22505.4
77.5°	769.1	814.9	950.4	1406.7	1751.4	1370.8	1339.0	4427.4	8902.5	8946.4	9448.5
80°	617.7	647.6	721.3	990.3	1343.0	1026.1	872.7	1787.3	2813.4	2381.0	2498.6
82.5°	454.3	504.1	609.7	695.4	960.4	707.3	532.0	902.6	1070.0	920.5	928.5
85°	259.0	292.9	368.6	498.1	613.7	432.4	304.9	400.5	498.1	408.5	364.6
87.5°	91.7	119.6	129.5	195.3	267.0	179.3	117.6	115.6	163.4	121.5	101.6
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°	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3	5505.3
2.5°	5545.1	5535.2	5495.3	5441.5	5385.7	5332.0	5314.0	5276.2	5250.3	5236.3	5252.3
5°	5656.7	5624.9	5531.2	5411.7	5286.1	5150.6	5055.0	4967.3	4903.6	4843.8	4867.7
7.5°	5816.1	5760.3	5598.9	5389.7	5166.6	4941.4	4774.0	4646.5	4560.9	4505.1	4517.0
10°	6001.4	5915.8	5668.7	5355.9	5011.2	4688.4	4491.1	4381.5	4327.7	4297.8	4305.8
12.5°	6214.6	6093.1	5740.4	5278.2	4774.0	4405.4	4269.9	4238.1	4240.1	4242.0	4246.0
15°	6477.6	6308.3	5798.2	5108.8	4465.2	4188.3	4164.3	4216.1	4269.9	4295.8	4293.9
17.5°	6774.5	6535.4	5808.2	4829.8	4162.3	4048.8	4124.5	4236.1	4317.8	4353.6	4361.6
20°	7093.3	6766.6	5736.4	4435.3	3913.3	3935.2	4070.7	4214.2	4303.8	4349.6	4361.6
22.5°	7458.0	7013.6	5565.1	4020.9	3710.0	3811.7	3971.1	4110.5	4204.2	4250.0	4262.0
25°	7874.4	7290.6	5296.1	3672.2	3534.7	3672.2	3831.6	3947.2	4022.9	4064.7	4076.7
27.5°	8336.7	7579.5	4937.4	3395.2	3381.3	3528.7	3660.2	3749.9	3789.8	3821.6	3833.6
30°	8800.9	7842.5	4503.1	3186.0	3247.8	3387.3	3480.9	3520.8	3532.7	3538.7	3552.6
32.5°	9303.0	8069.7	4046.8	3012.7	3120.3	3249.8	3305.6	3323.5	3267.7	3229.9	3241.8
35°	9910.7	8312.7	3600.5	2875.2	2994.7	3106.3	3124.3	3108.3	3042.6	2964.9	2968.8
37.5°	10661.9	8615.6	3243.8	2777.6	2877.2	2950.9	2929.0	2925.0	2931.0	2839.3	2845.3
40°	11582.4	9010.1	2982.8	2701.8	2781.5	2797.5	2735.7	2769.6	2799.5	2660.0	2664.0
42.5°	12604.6	9486.3	2817.4	2650.0	2701.8	2664.0	2568.3	2606.2	2602.2	2418.9	2416.9
45°	13646.7	10004.4	2759.6	2612.2	2628.1	2552.4	2446.8	2456.8	2373.1	2207.7	2213.7
47.5°	14682.8	10560.3	2795.5	2580.3	2536.5	2450.8	2369.1	2325.3	2201.7	2078.2	2078.2
50°	15699.0	11144.1	2927.0	2516.5	2410.9	2361.1	2301.3	2223.6	2092.1	1986.5	1978.6
52.5°	16641.4	11731.9	3074.4	2410.9	2253.5	2283.4	2245.6	2155.9	2026.4	1918.8	1920.8
55°	17534.1	12319.7	3132.2	2265.5	2106.1	2215.7	2193.8	2028.4	1873.0	1785.3	1777.3
57.5°	18506.4	13027.0	3068.5	2080.2	1986.5	2138.0	2054.3	1871.0	1781.3	1715.5	1709.6
60°	19853.3	14136.8	2931.0	1851.0	1873.0	2022.4	1878.9	1803.2	1705.6	1631.9	1627.9
62.5°	22090.9	16207.1	2709.8	1623.9	1739.5	1851.0	1795.2	1719.5	1619.9	1548.2	1548.2
65°	25398.5	19084.2	2293.4	1446.6	1590.0	1683.7	1705.6	1629.9	1526.3	1450.5	1454.5
67.5°	28188.0	20889.5	1735.5	1299.1	1436.6	1548.2	1609.9	1536.2	1426.6	1352.9	1354.9
70°	28034.6	19578.4	1325.0	1153.7	1301.1	1414.7	1494.4	1436.6	1319.0	1249.3	1255.3
72.5°	24900.4	16378.4	1072.0	1006.2	1163.6	1275.2	1370.8	1327.0	1207.5	1139.7	1139.7
75°	18293.2	11626.3	856.8	856.8	992.3	1129.8	1235.4	1207.5	1097.9	1050.1	1036.1
77.5°	7711.0	4877.7	671.5	711.3	824.9	970.4	1101.9	1111.8	1016.2	1076.0	976.3
80°	2050.3	1344.9	512.1	559.9	647.6	801.0	958.4	954.4	850.8	795.0	739.2
82.5°	781.1	530.0	364.6	394.5	468.2	613.7	759.1	783.1	679.4	587.8	587.8
85°	300.9	227.1	225.2	237.1	273.0	406.5	573.8	593.8	512.1	434.4	448.3
87.5°	77.7	67.7	83.7	79.7	125.5	217.2	328.8	340.7	312.8	181.3	259.0
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)