

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: P944665

Luminaire Tested: **GALN-SB9D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944665
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-SB9D-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75867 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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

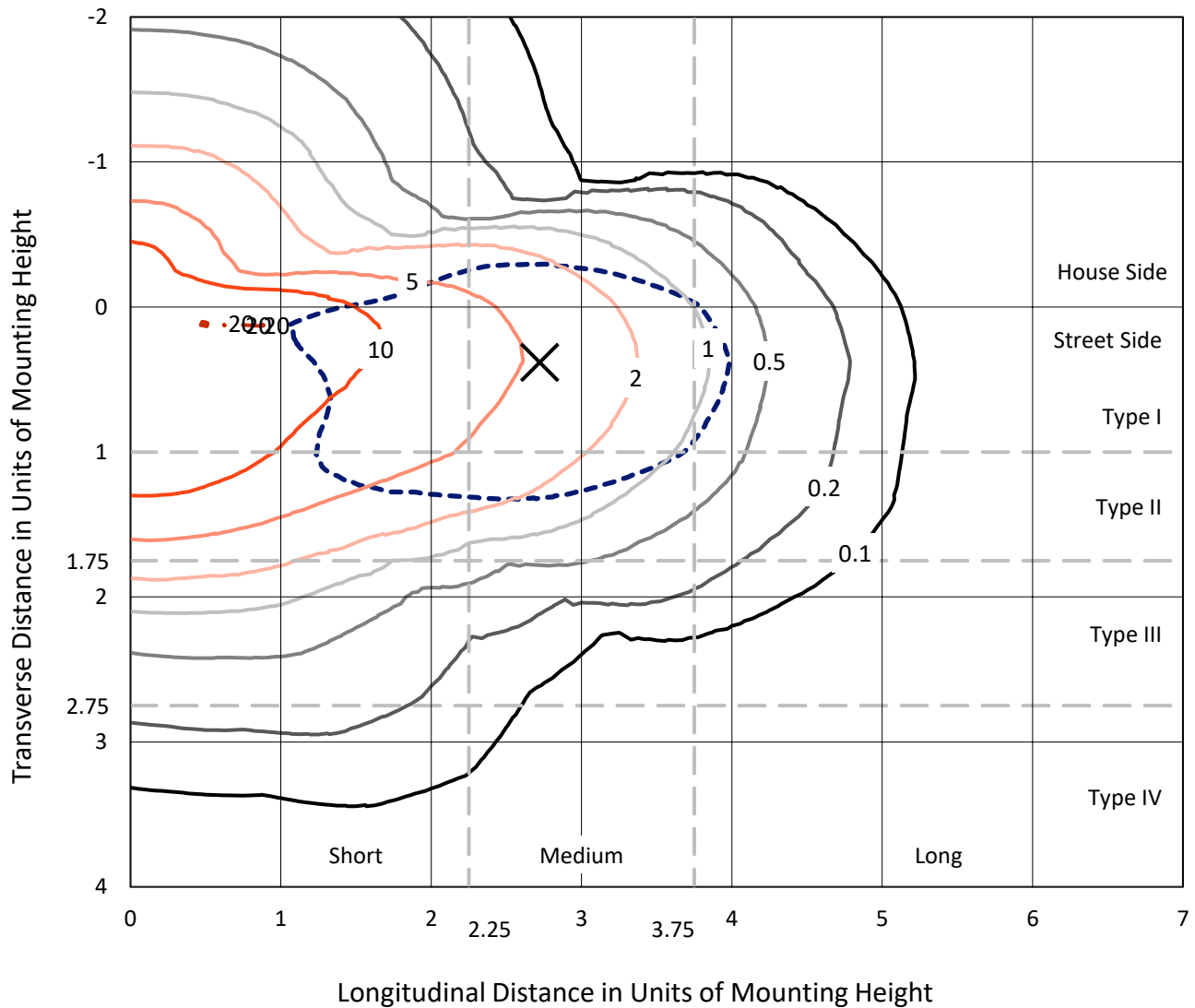


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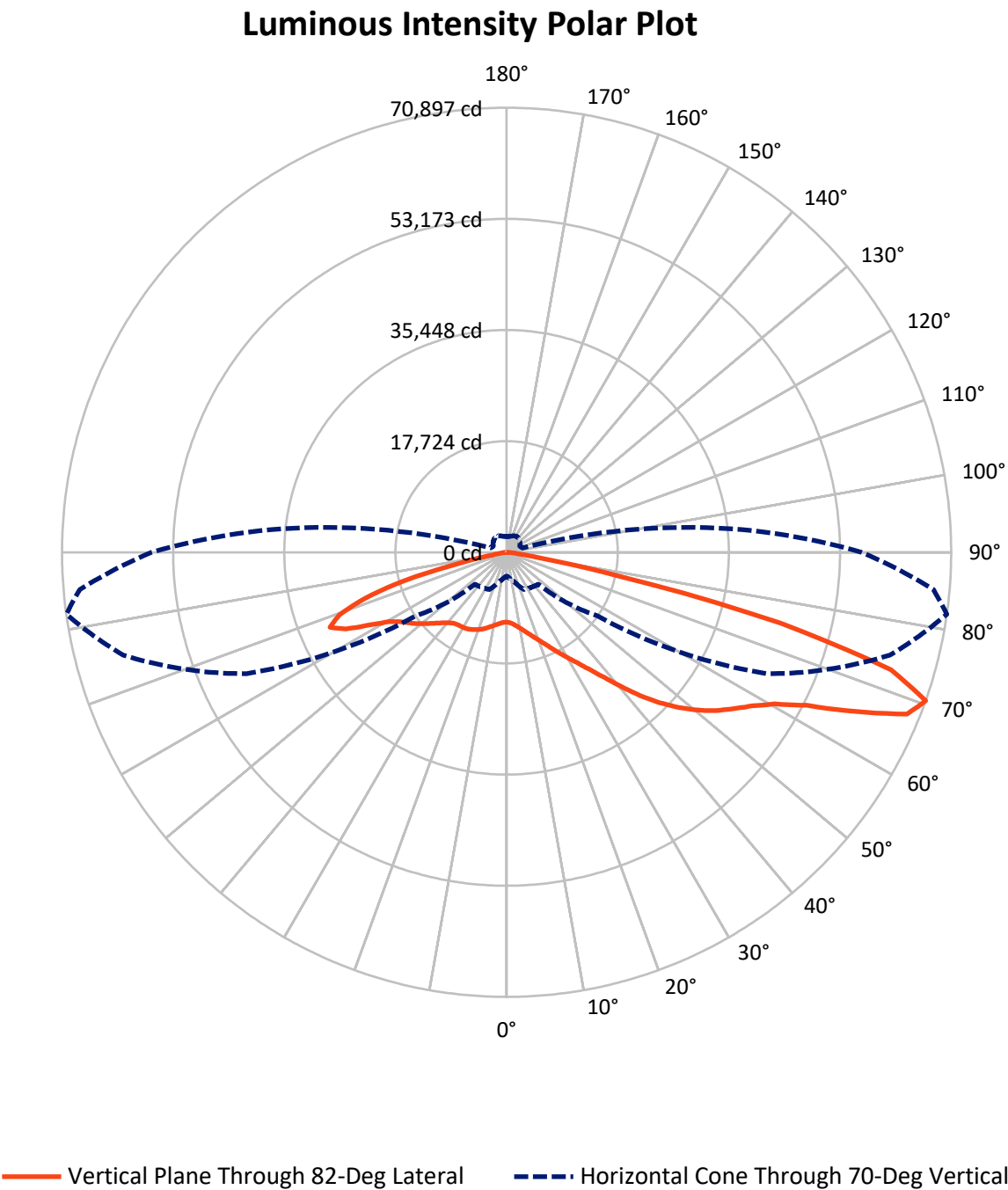
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18703.1	0.0	18703.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	57163.9	0.0	57163.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	75867.0	0.0	75867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.2	1.4
10°-20°	3017.3	4.0
20°-30°	5047.7	6.7
30°-40°	7885.8	10.4
40°-50°	12559.0	16.6
50°-60°	17477.4	23.0
60°-70°	18282.2	24.1
70°-80°	9555.2	12.6
80°-90°	992.2	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°	75867.0	100.0
0°-180°	75867.0	100.0

Coefficient of Utilization



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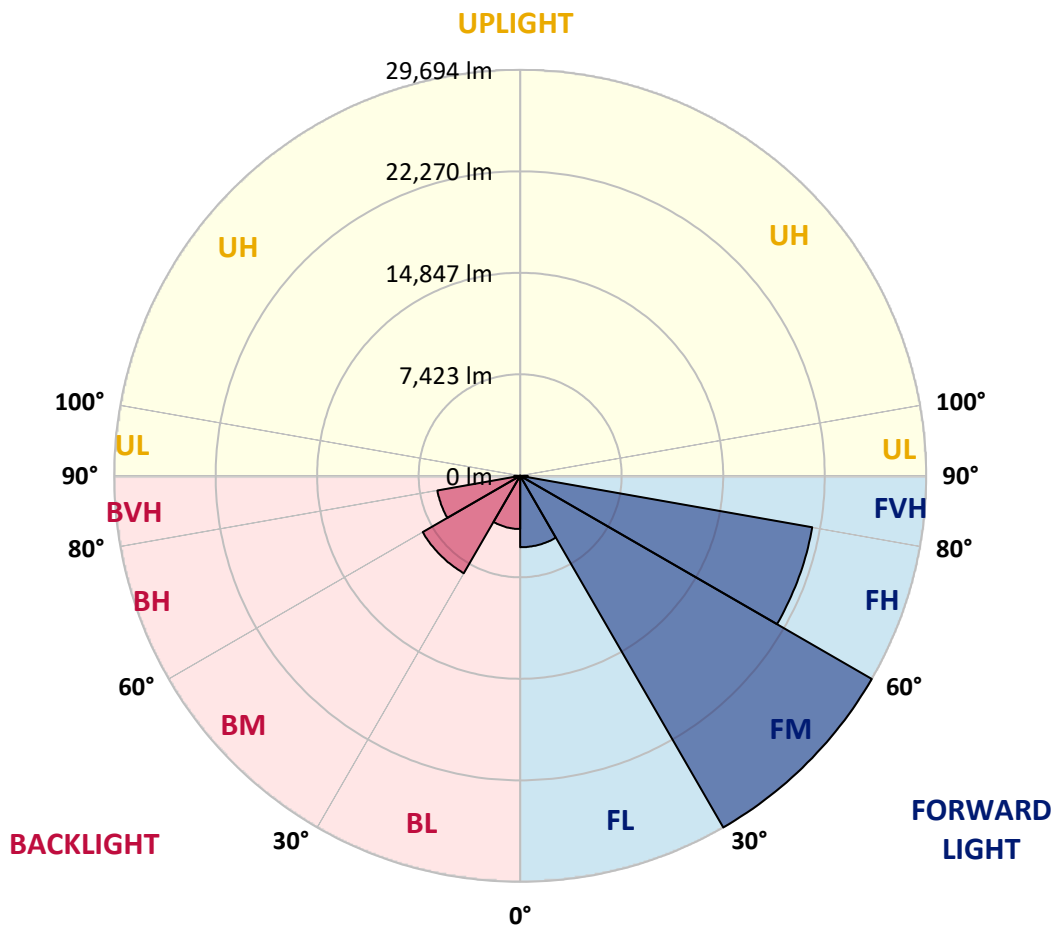
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5224.3	6.9			
FM	(30°-60°)	29693.6	39.1			
FH	(60°-80°)	21690.6	28.6			G5
FVH	(80°-90°)	555.4	0.7			G4/750
BL	(0°-30°)	3890.9	5.1	B4/5000		
BM	(30°-60°)	8228.6	10.8	B4/8500		
BH	(60°-80°)	6146.8	8.1	B5		G5
BVH	(80°-90°)	436.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1
2.5°	11388.7	11453.2	11433.0	11412.9	11412.9	11384.7	11380.7	11340.4	11308.2	11255.9	11243.8
5°	11533.7	11602.1	11594.1	11610.2	11662.5	11674.6	11686.7	11662.5	11598.1	11533.7	11505.5
7.5°	11404.9	11481.3	11505.5	11602.1	11763.1	11908.1	12016.8	12061.0	12000.7	11908.1	11863.8
10°	10970.1	11054.6	11139.2	11368.6	11654.4	11996.6	12286.5	12459.6	12447.5	12358.9	12282.5
12.5°	10088.4	10177.0	10358.2	10805.0	11328.4	11932.2	12471.7	12834.0	12958.8	12894.4	12761.5
15°	9383.9	9460.4	9597.3	10056.2	10736.6	11654.4	12540.1	13244.6	13562.6	13526.4	13365.4
17.5°	9363.8	9396.0	9480.6	9697.9	10221.3	11219.7	12467.6	13647.2	14255.1	14251.0	14049.7
20°	9718.1	9730.2	9778.5	9822.7	10120.6	10889.6	12282.5	13981.3	15032.0	15032.0	14814.6
22.5°	10209.2	10201.2	10249.5	10209.2	10354.1	10861.4	12165.7	14275.2	15897.5	15962.0	15688.2
25°	10945.9	10905.7	10893.6	10801.0	10829.2	11123.1	12294.5	14609.3	16924.1	17057.0	16714.8
27.5°	11928.2	11863.8	11819.5	11606.1	11533.7	11662.5	12689.1	15011.9	18067.4	18296.9	17862.1
30°	13208.4	13091.6	13027.2	12656.8	12395.2	12415.3	13284.9	15547.3	19263.0	19633.4	19081.9
32.5°	14955.5	14774.4	14601.3	13993.4	13514.3	13357.3	14053.8	16288.0	20559.3	21151.1	20442.6
35°	16912.0	16767.1	16581.9	15643.9	14907.2	14544.9	15092.4	17322.7	22077.0	23015.0	22093.1
37.5°	18796.1	18671.3	18759.8	17495.8	16545.7	16018.3	16453.1	18711.5	23949.0	25333.8	24162.3
40°	20744.5	20647.9	20660.0	19452.3	18345.2	17753.4	18103.6	20454.7	26094.7	28091.4	26650.2
42.5°	22862.0	22789.6	22548.0	21477.2	20233.2	19681.7	20003.8	22467.5	28397.4	31231.5	29379.7
45°	25233.2	25188.9	24963.5	23735.6	22310.5	21690.6	22125.3	24689.7	30712.2	34186.4	32121.2
47.5°	27282.3	27318.5	27290.3	26255.7	24778.3	23868.5	24387.8	27008.5	32865.9	36964.1	34750.0
50°	28268.6	28457.8	28735.6	28413.5	27495.6	26569.7	26670.4	29246.8	34919.1	39568.8	37270.1
52.5°	27753.3	28111.6	28868.4	29383.7	29738.0	29544.7	29275.0	31469.0	36851.4	41919.8	39653.3
55°	25833.0	26336.2	27592.3	28836.2	30643.7	32048.7	32403.0	33932.8	38735.4	43989.0	41907.7
57.5°	22334.7	23151.9	24279.1	26795.2	29838.6	33260.5	36050.3	37350.6	40732.2	46199.1	44266.8
60°	16336.4	17431.3	18832.3	22576.2	27020.6	32612.3	39154.1	42600.1	43570.3	49061.4	47338.4
62.5°	10454.8	11131.1	12419.3	15945.9	21054.5	29291.1	40104.2	49162.0	48381.0	53755.4	51943.8
65°	7157.7	7592.5	8772.0	10752.7	13610.9	21803.3	37559.9	54081.5	56021.9	61194.9	59818.1
67.5°	5201.2	5531.3	6537.8	8272.8	8868.7	12902.4	29146.2	53856.0	63449.3	68859.9	66718.2
70°	3792.2	4025.7	4871.1	6537.8	6823.6	7177.9	17656.8	45780.4	63288.3	70896.9	68332.5
72.5°	2809.9	2971.0	3538.6	5072.4	5523.3	4847.0	8739.8	33272.5	54383.4	64125.6	62068.5
75°	2033.0	2153.8	2572.4	3880.8	4420.2	3691.6	4359.8	19444.2	37934.3	45108.1	45470.5
77.5°	1553.9	1646.5	1920.3	2842.2	3538.6	2769.7	2705.3	8945.1	17986.9	18075.5	19089.9
80°	1248.0	1308.4	1457.3	2000.8	2713.3	2073.2	1763.3	3611.1	5684.3	4810.7	5048.2
82.5°	917.9	1018.5	1231.9	1405.0	1940.4	1429.1	1074.9	1823.6	2161.8	1859.9	1876.0
85°	523.3	591.8	744.8	1006.4	1239.9	873.6	615.9	809.2	1006.4	825.3	736.7
87.5°	185.2	241.5	261.7	394.5	539.4	362.3	237.5	233.5	330.1	245.6	205.3
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°	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1	11123.1
2.5°	11203.6	11183.4	11102.9	10994.2	10881.5	10772.8	10736.6	10660.1	10607.8	10579.6	10611.8
5°	11429.0	11364.6	11175.4	10933.8	10680.2	10406.5	10213.2	10036.1	9907.3	9786.5	9834.8
7.5°	11751.1	11638.3	11312.3	10889.6	10438.7	9983.8	9645.6	9388.0	9214.9	9102.1	9126.3
10°	12125.5	11952.3	11453.2	10821.1	10124.7	9472.5	9074.0	8852.5	8743.9	8683.5	8699.6
12.5°	12556.2	12310.6	11598.1	10664.1	9645.6	8900.9	8627.1	8562.7	8566.7	8570.7	8578.8
15°	13087.6	12745.4	11714.8	10321.9	9021.6	8462.1	8413.7	8518.4	8627.1	8679.4	8675.4
17.5°	13687.4	13204.3	11735.0	9758.3	8409.7	8180.3	8333.2	8558.7	8723.7	8796.2	8812.3
20°	14331.5	13671.3	11590.0	8961.2	7906.5	7950.8	8224.5	8514.4	8695.5	8788.1	8812.3
22.5°	15068.3	14170.5	11243.8	8123.9	7495.9	7701.2	8023.3	8305.1	8494.3	8586.9	8611.0
25°	15909.6	14730.1	10700.4	7419.4	7141.6	7419.4	7741.5	7974.9	8127.9	8212.5	8236.6
27.5°	16843.6	15313.8	9975.7	6859.8	6831.6	7129.5	7395.2	7576.4	7656.9	7721.3	7745.5
30°	17781.6	15845.2	9098.1	6437.1	6561.9	6843.7	7032.9	7113.4	7137.6	7149.7	7177.9
32.5°	18796.1	16304.1	8176.2	6086.9	6304.3	6565.9	6678.7	6714.9	6602.2	6525.7	6549.8
35°	20023.9	16795.3	7274.5	5809.1	6050.6	6276.1	6312.3	6280.1	6147.3	5990.3	5998.3
37.5°	21541.6	17407.2	6553.9	5611.8	5813.1	5962.1	5917.8	5909.7	5921.8	5736.6	5748.7
40°	23401.5	18204.3	6026.5	5458.9	5619.9	5652.1	5527.3	5595.7	5656.1	5374.3	5382.4
42.5°	25466.7	19166.4	5692.4	5354.2	5458.9	5382.4	5189.1	5265.6	5257.6	4887.2	4883.2
45°	27572.1	20213.1	5575.6	5277.7	5309.9	5156.9	4943.6	4963.7	4794.6	4460.5	4472.6
47.5°	29665.5	21336.3	5648.1	5213.3	5124.7	4951.6	4786.6	4698.0	4448.4	4198.8	4198.8
50°	31718.6	22515.8	5913.8	5084.5	4871.1	4770.5	4649.7	4492.7	4227.0	4013.6	3997.5
52.5°	33622.8	23703.4	6211.7	4871.1	4553.1	4613.5	4537.0	4355.8	4094.2	3876.8	3880.8
55°	35426.3	24891.0	6328.4	4577.2	4255.2	4476.6	4432.3	4098.2	3784.2	3607.0	3590.9
57.5°	37390.8	26320.1	6199.6	4202.8	4013.6	4319.6	4150.5	3780.1	3599.0	3466.1	3454.1
60°	40112.2	28562.4	5921.8	3739.9	3784.2	4086.1	3796.2	3643.3	3446.0	3297.1	3289.0
62.5°	44633.1	32745.2	5475.0	3281.0	3514.4	3739.9	3627.2	3474.2	3272.9	3128.0	3128.0
65°	51315.8	38558.3	4633.6	2922.7	3212.5	3401.7	3446.0	3293.0	3083.7	2930.7	2938.8
67.5°	56951.8	42205.6	3506.4	2624.8	2902.5	3128.0	3252.8	3103.8	2882.4	2733.5	2737.5
70°	56641.8	39556.7	2677.1	2330.9	2628.8	2858.3	3019.3	2902.5	2665.0	2524.1	2536.2
72.5°	50309.4	33091.4	2165.8	2033.0	2351.0	2576.5	2769.7	2681.1	2439.6	2302.7	2302.7
75°	36960.1	23490.0	1731.1	1731.1	2004.8	2282.6	2495.9	2439.6	2218.2	2121.6	2093.4
77.5°	15579.5	9855.0	1356.7	1437.2	1666.6	1960.5	2226.2	2246.3	2053.1	2173.9	1972.6
80°	4142.5	2717.4	1034.6	1131.2	1308.4	1618.3	1936.4	1928.3	1719.0	1606.3	1493.5
82.5°	1578.1	1070.8	736.7	797.1	946.0	1239.9	1533.8	1582.1	1372.8	1187.6	1187.6
85°	607.9	458.9	454.9	479.1	551.5	821.2	1159.4	1199.7	1034.6	877.6	905.8
87.5°	157.0	136.9	169.1	161.0	253.6	438.8	664.2	688.4	632.0	366.3	523.3
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)