

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: P943645

Luminaire Tested: **GALN-SB8B-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943645
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-SB8B-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37270 lumens
Efficiency: N/A
Efficacy: 127.3 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): 292.8
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



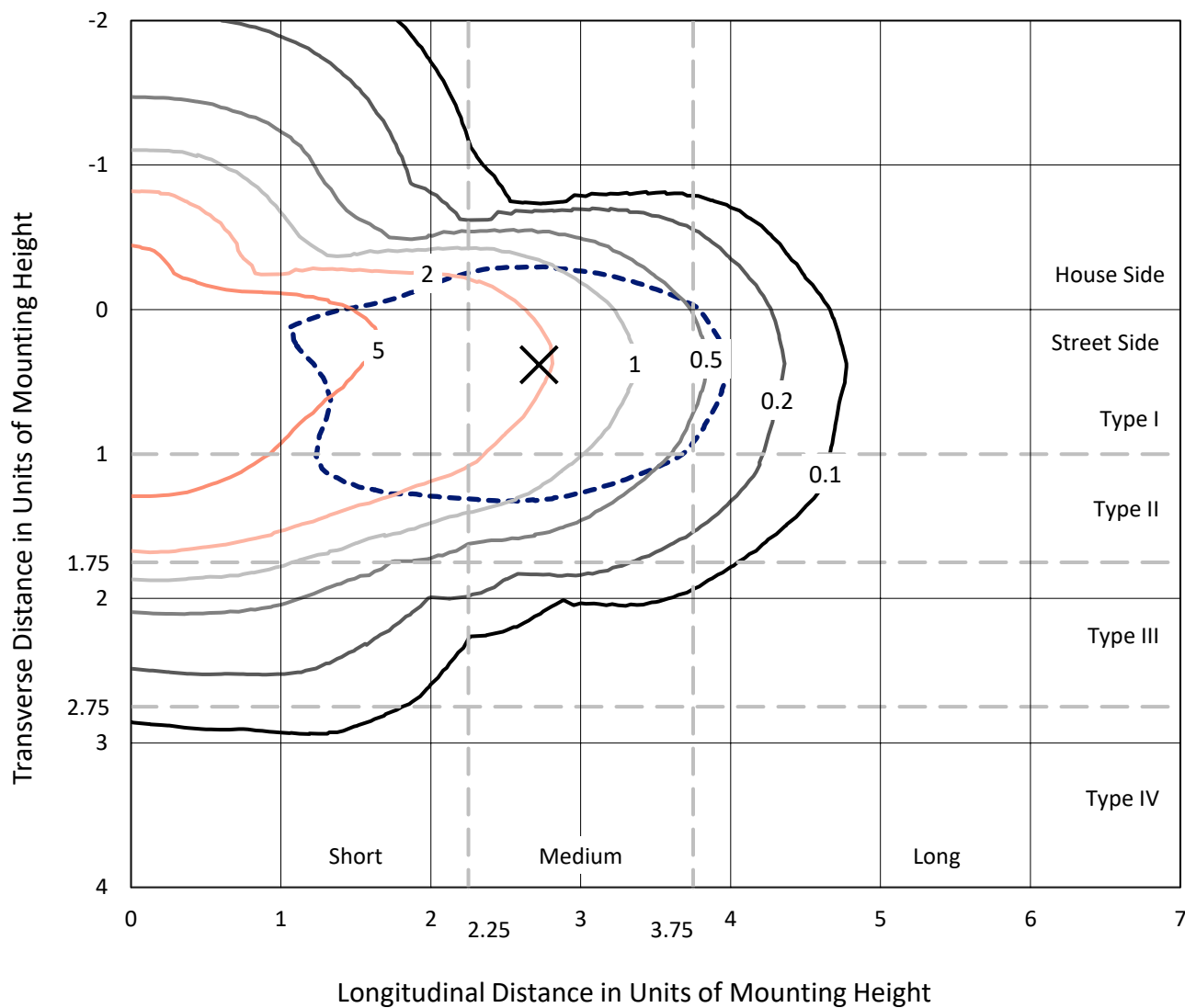
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

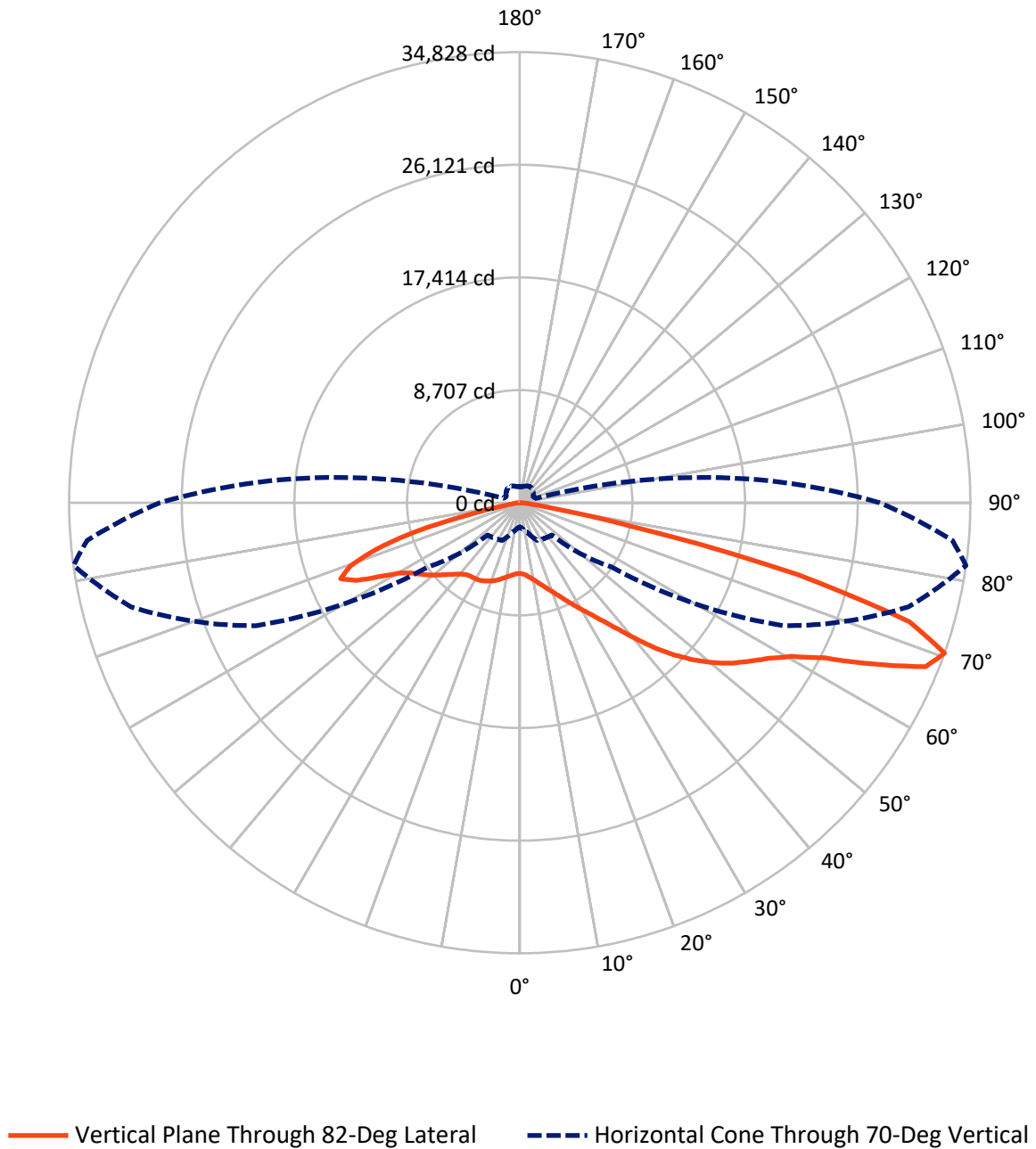


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9188.0	0.0	9188.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28082.0	0.0	28082.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	37270.0	0.0	37270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.9	1.4
10°-20°	1482.3	4.0
20°-30°	2479.7	6.7
30°-40°	3873.9	10.4
40°-50°	6169.7	16.6
50°-60°	8585.9	23.0
60°-70°	8981.2	24.1
70°-80°	4694.1	12.6
80°-90°	487.4	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°	37270.0	100.0
0°-180°	37270.0	100.0

Coefficient of Utilization



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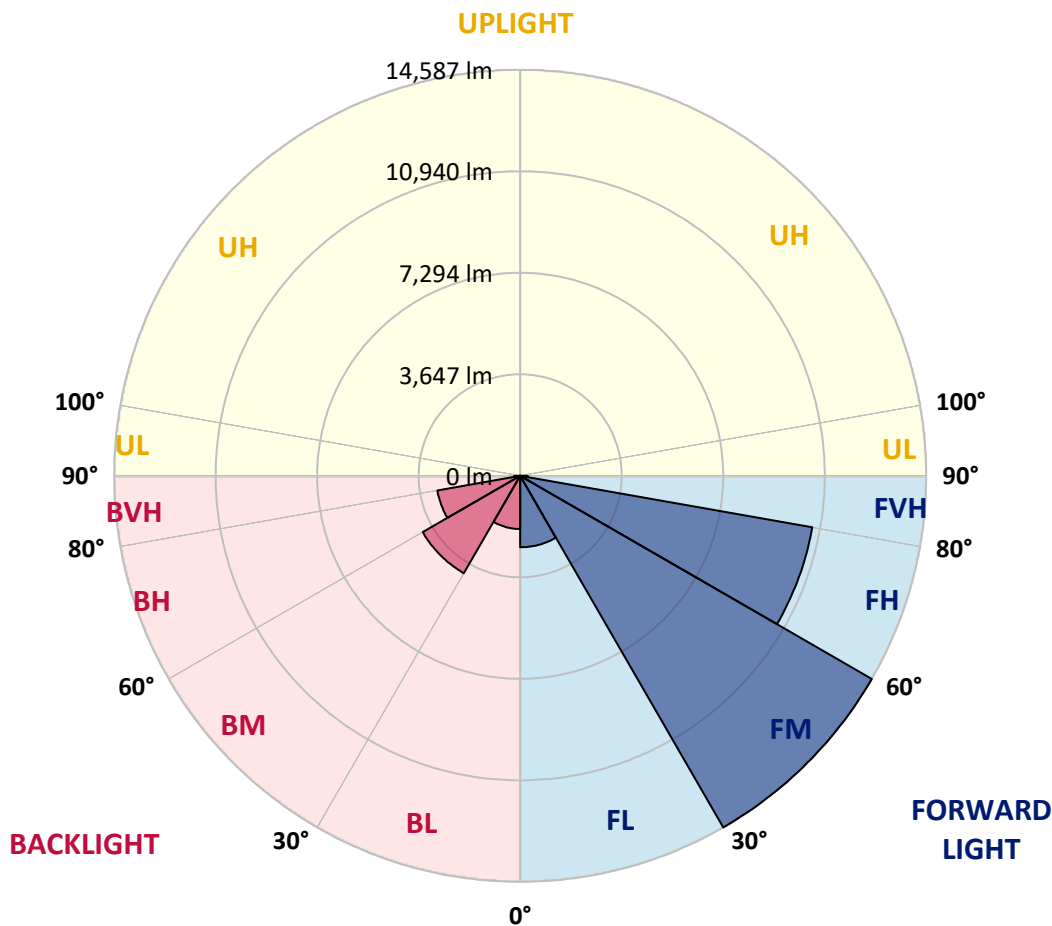
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2566.5	6.9			
FM	(30°-60°)	14587.1	39.1			
FH	(60°-80°)	10655.6	28.6			G4/12000
FVH	(80°-90°)	272.9	0.7			G3/500
BL	(0°-30°)	1911.4	5.1	B3/2500		
BM	(30°-60°)	4042.3	10.8	B3/5000		
BH	(60°-80°)	3019.6	8.1	B4/5000		G4/5000
BVH	(80°-90°)	214.6	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°	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2
2.5°	5594.8	5626.4	5616.5	5606.6	5606.6	5592.8	5590.8	5571.0	5555.2	5529.5	5523.6
5°	5666.0	5699.6	5695.6	5703.5	5729.3	5735.2	5741.1	5729.3	5697.6	5666.0	5652.1
7.5°	5602.7	5640.3	5652.1	5699.6	5778.7	5849.9	5903.3	5925.0	5895.4	5849.9	5828.1
10°	5389.1	5430.6	5472.2	5584.9	5725.3	5893.4	6035.8	6120.8	6114.9	6071.4	6033.8
12.5°	4956.0	4999.5	5088.5	5308.0	5565.1	5861.8	6126.8	6304.7	6366.1	6334.4	6269.2
15°	4609.9	4647.5	4714.7	4940.2	5274.4	5725.3	6160.4	6506.5	6662.7	6644.9	6565.8
17.5°	4600.0	4615.8	4657.4	4764.2	5021.3	5511.7	6124.8	6704.2	7002.9	7000.9	6902.0
20°	4774.0	4780.0	4803.7	4825.5	4971.8	5349.5	6033.8	6868.4	7384.5	7384.5	7277.8
22.5°	5015.3	5011.4	5035.1	5015.3	5086.5	5335.7	5976.5	7012.7	7809.7	7841.4	7706.9
25°	5377.2	5357.5	5351.5	5306.0	5319.9	5464.2	6039.7	7176.9	8314.0	8379.3	8211.2
27.5°	5859.8	5828.1	5806.4	5701.6	5666.0	5729.3	6233.6	7374.7	8875.7	8988.4	8774.8
30°	6488.7	6431.3	6399.7	6217.7	6089.2	6099.1	6526.2	7637.7	9463.1	9645.0	9374.1
32.5°	7347.0	7258.0	7172.9	6874.3	6639.0	6561.8	6904.0	8001.6	10099.9	10390.6	10042.5
35°	8308.1	8236.9	8145.9	7685.1	7323.2	7145.3	7414.2	8509.8	10845.4	11306.2	10853.3
37.5°	9233.6	9172.3	9215.9	8594.9	8128.1	7869.1	8082.7	9192.1	11765.0	12445.4	11869.9
40°	10190.8	10143.4	10149.3	9556.0	9012.2	8721.4	8893.5	10048.4	12819.1	13800.0	13092.0
42.5°	11231.1	11195.5	11076.8	10550.8	9939.7	9668.7	9826.9	11037.3	13950.3	15342.6	14432.9
45°	12395.9	12374.2	12263.4	11660.2	10960.1	10655.6	10869.2	12128.9	15087.5	16794.2	15779.7
47.5°	13402.5	13420.3	13406.5	12898.2	12172.4	11725.5	11980.6	13268.1	16145.5	18158.8	17071.1
50°	13887.1	13980.0	14116.5	13958.3	13507.4	13052.5	13101.9	14367.6	17154.1	19438.3	18309.1
52.5°	13633.9	13809.9	14181.7	14434.9	14608.9	14514.0	14381.5	15459.3	18103.4	20593.3	19479.9
55°	12690.6	12937.8	13554.8	14165.9	15053.9	15744.1	15918.1	16669.6	19029.0	21609.8	20587.3
57.5°	10972.0	11373.5	11927.2	13163.2	14658.3	16339.3	17709.9	18348.6	20009.9	22695.5	21746.2
60°	8025.3	8563.2	9251.4	11090.7	13274.0	16020.9	19234.6	20927.5	21404.1	24101.6	23255.2
62.5°	5136.0	5468.2	6101.1	7833.5	10343.1	14389.4	19701.4	24151.1	23767.4	26407.6	25517.6
65°	3516.3	3729.8	4309.3	5282.3	6686.4	10711.0	18451.5	26567.8	27521.0	30062.3	29385.9
67.5°	2555.1	2717.3	3211.7	4064.1	4356.8	6338.4	14318.2	26457.0	31169.7	33827.7	32775.6
70°	1862.9	1977.7	2393.0	3211.7	3352.1	3526.2	8674.0	22489.8	31090.6	34828.4	33568.6
72.5°	1380.4	1459.5	1738.4	2491.8	2713.3	2381.1	4293.5	16345.3	26716.1	31502.0	30491.4
75°	998.7	1058.0	1263.7	1906.5	2171.5	1813.5	2141.8	9552.1	18635.4	22159.6	22337.6
77.5°	763.4	808.9	943.3	1396.2	1738.4	1360.6	1329.0	4394.3	8836.1	8879.7	9378.0
80°	613.1	642.7	715.9	982.9	1332.9	1018.5	866.2	1774.0	2792.4	2363.3	2480.0
82.5°	450.9	500.3	605.2	690.2	953.2	702.1	528.0	895.9	1062.0	913.7	921.6
85°	257.1	290.7	365.9	494.4	609.1	429.2	302.6	397.5	494.4	405.4	361.9
87.5°	91.0	118.7	128.5	193.8	265.0	178.0	116.7	114.7	162.2	120.6	100.9
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°	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2	5464.2
2.5°	5503.8	5493.9	5454.4	5401.0	5345.6	5292.2	5274.4	5236.8	5211.1	5197.3	5213.1
5°	5614.5	5582.9	5490.0	5371.3	5246.7	5112.2	5017.3	4930.3	4867.0	4807.7	4831.4
7.5°	5772.8	5717.4	5557.2	5349.5	5128.0	4904.6	4738.5	4611.9	4526.8	4471.5	4483.3
10°	5956.7	5871.6	5626.4	5315.9	4973.8	4653.4	4457.6	4348.9	4295.5	4265.8	4273.7
12.5°	6168.3	6047.7	5697.6	5238.8	4738.5	4372.6	4238.1	4206.5	4208.4	4210.4	4214.4
15°	6429.3	6261.2	5755.0	5070.7	4431.9	4157.0	4133.3	4184.7	4238.1	4263.8	4261.8
17.5°	6724.0	6486.7	5764.9	4793.8	4131.3	4018.6	4093.7	4204.5	4285.6	4321.2	4329.1
20°	7040.4	6716.1	5693.7	4402.2	3884.1	3905.9	4040.3	4182.7	4271.7	4317.2	4329.1
22.5°	7402.3	6961.3	5523.6	3990.9	3682.4	3783.2	3941.5	4079.9	4172.8	4218.3	4230.2
25°	7815.7	7236.2	5256.6	3644.8	3508.4	3644.8	3803.0	3917.7	3992.9	4034.4	4046.3
27.5°	8274.5	7523.0	4900.6	3369.9	3356.1	3502.4	3632.9	3721.9	3761.5	3793.1	3805.0
30°	8735.3	7784.0	4469.5	3162.3	3223.6	3362.0	3455.0	3494.5	3506.4	3512.3	3526.2
32.5°	9233.6	8009.5	4016.6	2990.2	3097.0	3225.5	3280.9	3298.7	3243.3	3205.8	3217.6
35°	9836.8	8250.8	3573.6	2853.7	2972.4	3083.2	3101.0	3085.1	3019.9	2942.7	2946.7
37.5°	10582.4	8551.4	3219.6	2756.8	2855.7	2928.9	2907.1	2903.2	2909.1	2818.2	2824.1
40°	11496.1	8942.9	2960.5	2681.7	2760.8	2776.6	2715.3	2748.9	2778.6	2640.2	2644.1
42.5°	12510.6	9415.6	2796.4	2630.3	2681.7	2644.1	2549.2	2586.8	2582.8	2400.9	2398.9
45°	13544.9	9929.8	2739.0	2592.7	2608.5	2533.4	2428.6	2438.4	2355.4	2191.2	2197.2
47.5°	14573.3	10481.5	2774.6	2561.1	2517.5	2432.5	2351.4	2307.9	2185.3	2062.7	2062.7
50°	15581.9	11061.0	2905.2	2497.8	2393.0	2343.5	2284.2	2207.1	2076.5	1971.7	1963.8
52.5°	16517.3	11644.4	3051.5	2393.0	2236.7	2266.4	2228.8	2139.8	2011.3	1904.5	1906.5
55°	17403.3	12227.8	3108.9	2248.6	2090.4	2199.1	2177.4	2013.2	1859.0	1772.0	1764.1
57.5°	18368.4	12929.9	3045.6	2064.7	1971.7	2122.0	2039.0	1857.0	1768.0	1702.8	1696.8
60°	19705.3	14031.4	2909.1	1837.2	1859.0	2007.3	1864.9	1789.8	1692.9	1619.7	1615.7
62.5°	21926.2	16086.2	2689.6	1611.8	1726.5	1837.2	1781.9	1706.7	1607.8	1536.6	1536.6
65°	25209.1	18941.9	2276.3	1435.8	1578.2	1671.1	1692.9	1617.7	1514.9	1439.7	1443.7
67.5°	27977.8	20733.7	1722.5	1289.4	1425.9	1536.6	1597.9	1524.8	1416.0	1342.8	1344.8
70°	27825.5	19432.4	1315.1	1145.1	1291.4	1404.1	1483.2	1425.9	1309.2	1240.0	1245.9
72.5°	24714.7	16256.3	1064.0	998.7	1154.9	1265.7	1360.6	1317.1	1198.5	1131.2	1131.2
75°	18156.8	11539.6	850.4	850.4	984.9	1121.3	1226.1	1198.5	1089.7	1042.2	1028.4
77.5°	7653.5	4841.3	666.5	706.0	818.7	963.1	1093.6	1103.5	1008.6	1067.9	969.0
80°	2035.0	1334.9	508.3	555.7	642.7	795.0	951.2	947.3	844.5	789.1	733.7
82.5°	775.2	526.1	361.9	391.6	464.7	609.1	753.5	777.2	674.4	583.4	583.4
85°	298.6	225.5	223.5	235.3	270.9	403.4	569.6	589.3	508.3	431.1	445.0
87.5°	77.1	67.2	83.1	79.1	124.6	215.6	326.3	338.2	310.5	180.0	257.1
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)