

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: P955564

Luminaire Tested: **GALN-SB8C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57126 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 399.8
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

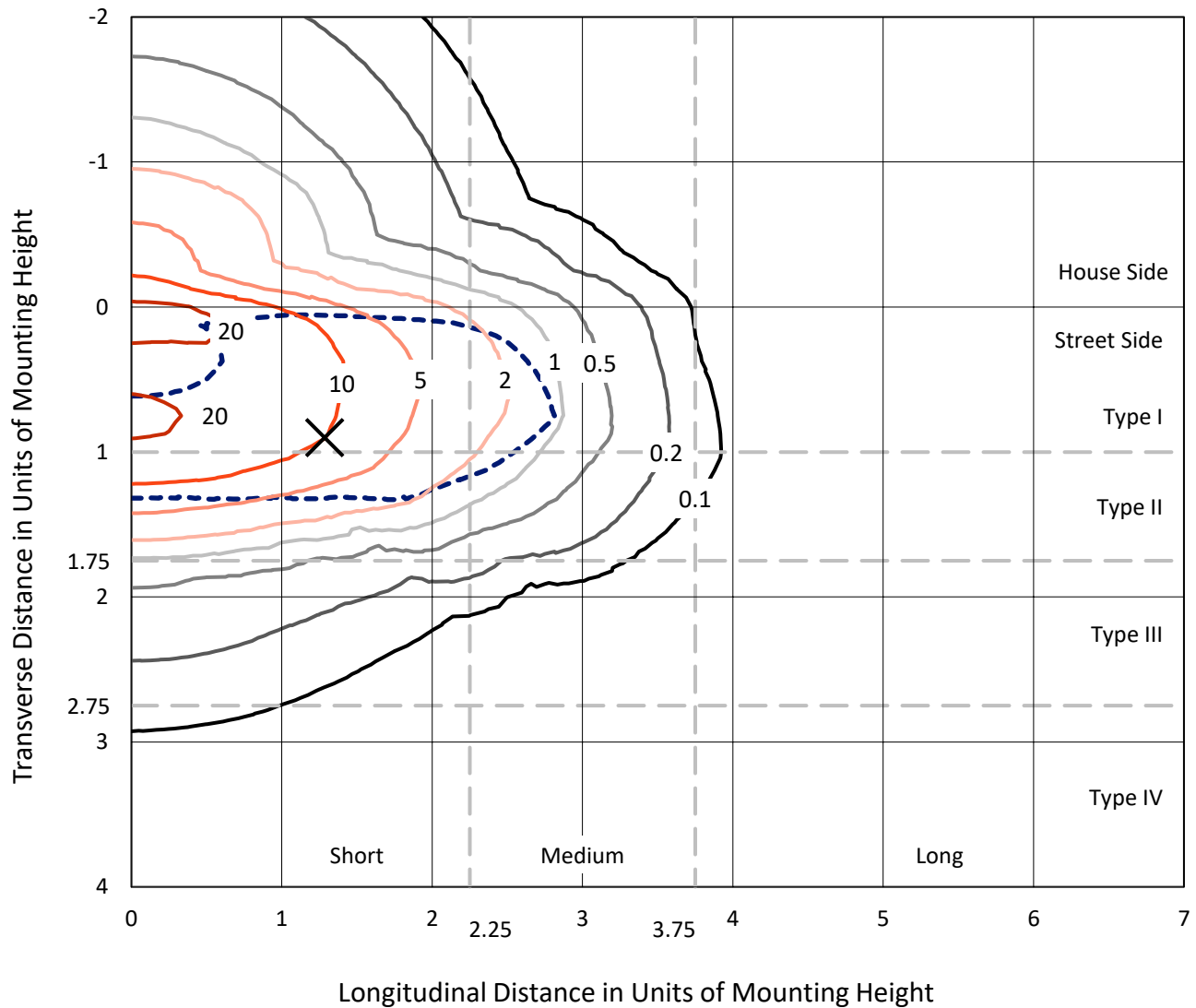


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

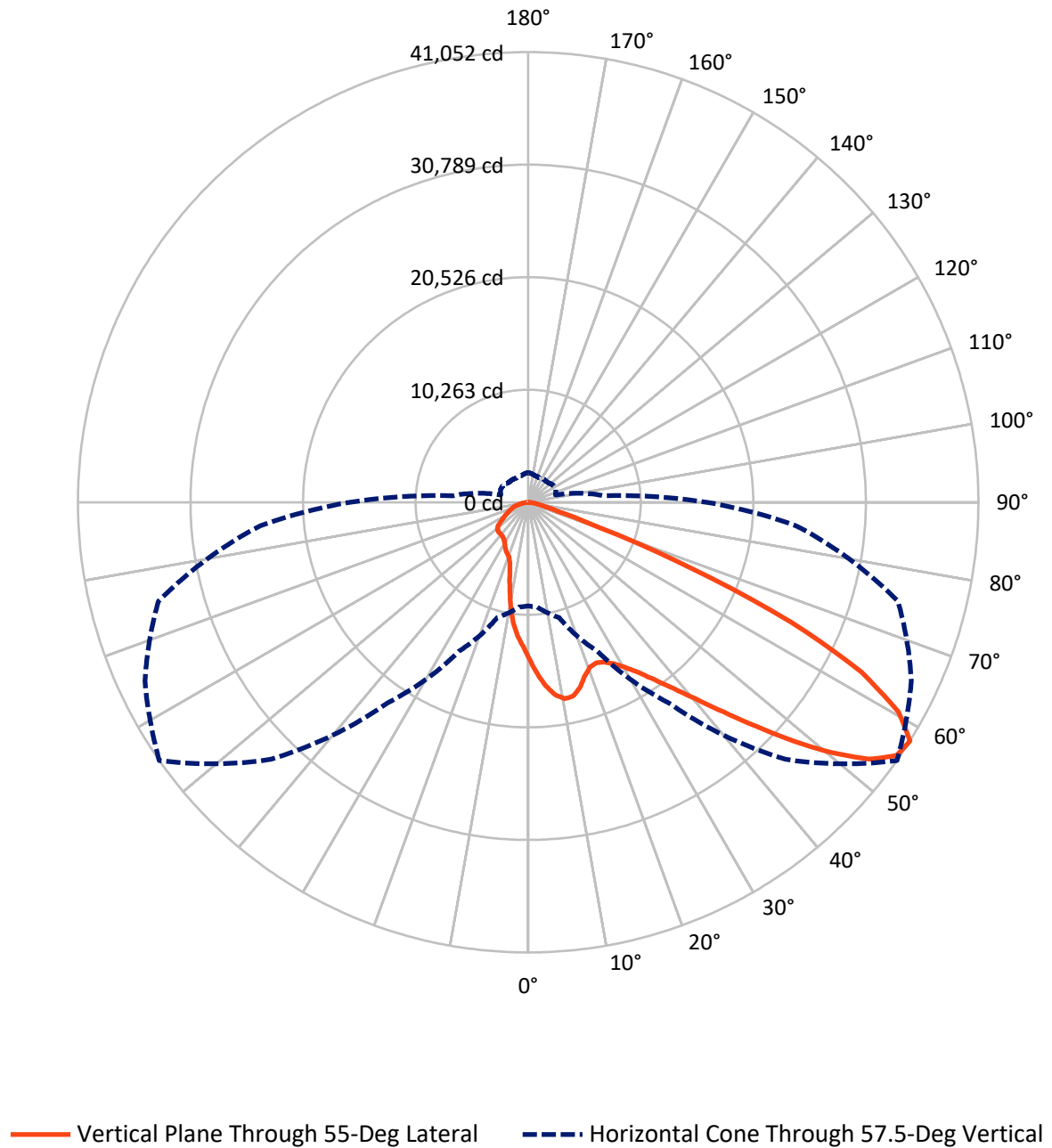


Based on 25 foot mounting height. Maximum calculated value = 27.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10336.7	0.0	10336.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46789.3	0.0	46789.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	57126.0	0.0	57126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1328.2	2.3
10°-20°	3352.6	5.9
20°-30°	5349.7	9.4
30°-40°	8469.9	14.8
40°-50°	12964.1	22.7
50°-60°	13885.8	24.3
60°-70°	8735.6	15.3
70°-80°	2583.3	4.5
80°-90°	456.8	0.8
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°	57126.0	100.0
0°-180°	57126.0	100.0

Coefficient of Utilization



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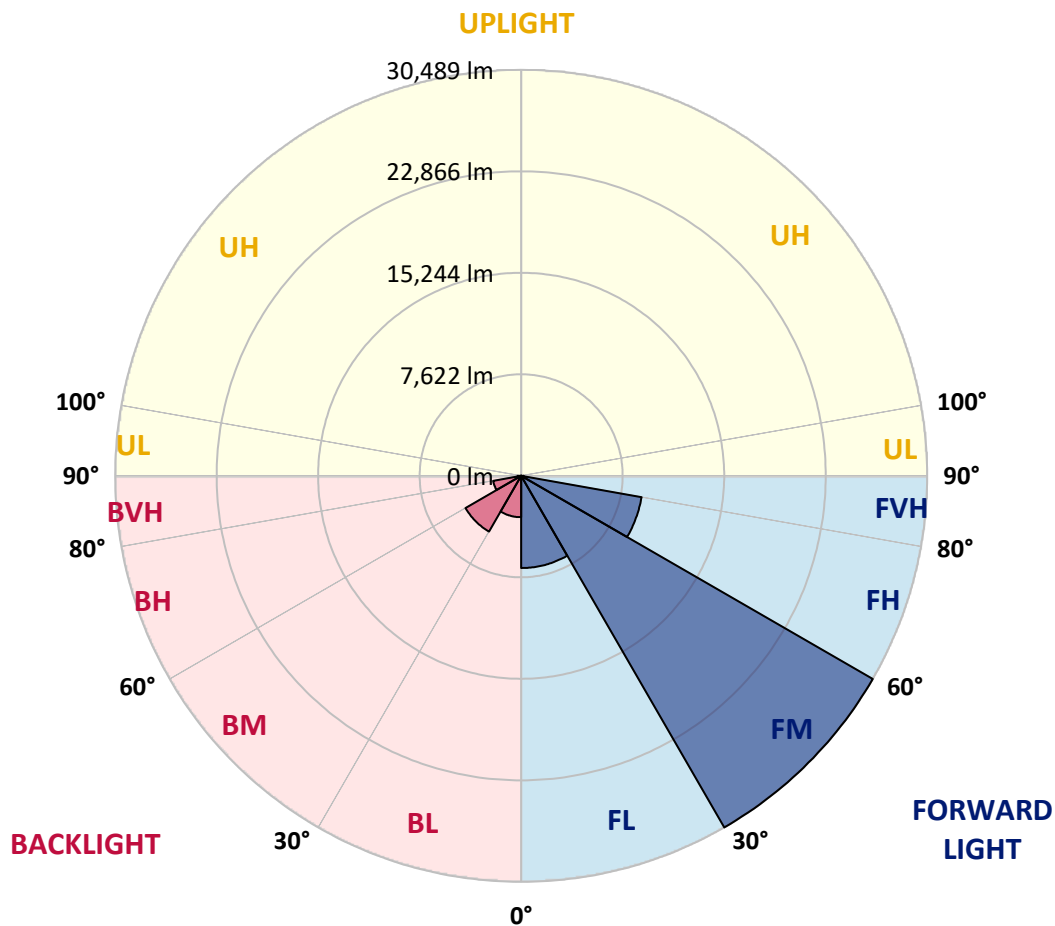
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6923.7	12.1			
FM	(30°-60°)	30488.6	53.4			
FH	(60°-80°)	9184.1	16.1			G4/12000
FVH	(80°-90°)	193.0	0.3			G2/225
BL	(0°-30°)	3106.9	5.4	B4/5000		
BM	(30°-60°)	4831.3	8.5	B3/5000		
BH	(60°-80°)	2134.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	263.8	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9
2.5°	16422.5	16410.7	16475.6	16254.1	16103.5	15899.8	15631.0	15288.5	14919.3	14529.5	14361.2
5°	17902.0	17798.6	17866.6	17701.2	17535.8	17228.7	16830.0	16271.9	15589.7	14813.0	14399.6
7.5°	17668.7	17597.8	17772.1	17919.7	18043.8	18005.4	17713.0	17128.3	16248.2	15120.1	14520.6
10°	15787.5	15707.8	15952.9	16463.8	17213.9	17866.6	18220.9	17857.7	16921.6	15456.8	14638.8
12.5°	14127.9	14089.5	14251.9	14665.3	15498.1	16750.3	18156.0	18495.6	17621.5	15855.5	14798.2
15°	13419.1	13371.9	13475.2	13684.9	14216.5	15383.0	17565.3	18932.6	18309.5	16316.2	15052.2
17.5°	13262.6	13209.4	13253.7	13363.0	13705.6	14594.5	16673.5	19148.2	19027.1	16830.0	15264.8
20°	13552.0	13507.7	13513.6	13507.7	13746.9	14452.7	16053.3	19065.5	19653.2	17302.5	15471.6
22.5°	14251.9	14178.1	14181.0	14024.5	14154.5	14700.8	15890.9	18844.1	20211.4	17716.0	15628.1
25°	15391.8	15258.9	15285.5	14886.8	14851.4	15256.0	16144.9	18672.8	20766.6	18046.7	15657.6
27.5°	16951.1	16800.5	16720.7	16127.2	15843.7	16044.5	16661.7	18731.8	21292.2	18333.2	15583.8
30°	18900.2	18717.1	18554.6	17713.0	17199.1	17125.3	17464.9	19121.7	21912.4	18634.4	15456.8
32.5°	21289.3	21076.6	20781.3	19665.0	18941.5	18554.6	18504.4	19815.6	22638.9	19018.3	15391.8
35°	24133.1	23855.6	23436.2	21992.1	21076.6	20285.2	19874.7	20816.8	23634.1	19597.1	15465.7
37.5°	27062.7	26749.6	26365.7	24647.0	23521.8	22355.4	21546.2	22175.2	24960.0	20382.6	15660.6
40°	29764.8	29413.4	29056.0	27526.3	26318.5	24912.8	23592.7	23893.9	26581.3	21321.7	15991.3
42.5°	31359.5	31099.6	30963.8	30136.9	29203.7	27777.3	26138.3	25931.6	28403.4	22402.6	16369.3
45°	31288.6	31182.3	31601.7	31944.2	31722.7	30931.3	29121.0	28184.9	30231.4	23338.7	16717.8
47.5°	29617.1	29688.0	30624.2	32549.6	33397.2	33810.6	32517.1	30396.8	31820.2	24038.6	16874.3
50°	25069.3	25128.4	27296.0	31448.1	33828.3	36158.4	35886.7	32555.5	33051.7	24466.9	16838.9
52.5°	21469.4	21507.8	22438.0	28181.9	32404.9	37339.6	38922.5	34590.3	33952.4	24585.0	16641.0
55°	16171.5	16304.3	17346.8	22110.2	28701.7	36403.5	40771.2	36687.0	34522.3	24596.8	16434.3
57.5°	9447.1	9591.8	10879.4	15007.9	22308.1	33140.3	41051.7	38547.5	34909.2	24502.3	16310.3
60°	4627.6	4689.6	5250.7	7887.9	13755.8	26853.0	38795.5	39448.2	35124.8	24452.1	16304.3
62.5°	3118.5	3109.7	3133.3	3892.3	6777.5	17252.3	34094.1	37871.2	35009.6	24260.1	16245.3
65°	2681.5	2649.0	2560.4	2731.7	3511.3	7890.8	26342.1	33163.9	34132.5	23778.8	15840.7
67.5°	2318.2	2321.2	2324.1	2271.0	2507.2	3641.2	16097.6	26123.6	30984.5	21498.9	14281.4
70°	1919.5	1946.1	1957.9	1957.9	2043.6	2389.1	6872.0	17905.0	24440.3	16856.6	11502.5
72.5°	1748.3	1692.2	1698.1	1668.5	1668.5	1819.1	2767.1	10150.0	15397.7	9482.6	7019.6
75°	1426.4	1461.8	1467.7	1447.0	1379.1	1388.0	1642.0	4258.4	6588.5	3933.6	3470.0
77.5°	1231.5	1231.5	1243.3	1228.5	1175.4	1039.5	1095.6	1650.8	2241.4	1612.4	1733.5
80°	989.3	986.4	1036.6	1066.1	983.4	767.8	699.9	912.5	995.2	708.8	900.7
82.5°	481.4	510.9	711.7	812.1	747.1	555.2	428.2	567.0	531.6	313.0	404.6
85°	280.5	265.8	318.9	451.8	428.2	307.1	206.7	295.3	277.6	159.5	162.4
87.5°	88.6	82.7	65.0	153.6	124.0	85.6	56.1	85.6	76.8	35.4	35.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9	14313.9
2.5°	14151.5	13803.0	13457.5	13141.5	12949.6	12825.5	12701.5	12562.7	12509.5	12429.8
5°	14009.7	13336.4	12736.9	12220.1	11750.6	11381.4	11009.3	10708.1	10572.3	10663.8
7.5°	13927.1	12952.5	12028.2	11080.2	10167.7	9438.3	8803.3	8357.4	8156.6	8206.8
10°	13853.2	12518.4	11109.8	9612.5	8301.3	7397.6	6747.9	6408.3	6281.4	6307.9
12.5°	13785.3	12031.1	10002.3	8032.6	6638.7	6042.1	5856.1	5859.1	5882.7	5900.4
15°	13773.5	11443.5	8765.0	6650.5	5740.9	5702.5	5903.3	6030.3	6098.3	6118.9
17.5°	13755.8	10740.6	7504.0	5708.4	5522.4	5782.3	5968.3	6051.0	6104.2	6107.1
20°	13684.9	9848.8	6340.4	5259.6	5475.1	5699.6	5814.8	5879.7	5924.0	5938.8
22.5°	13466.4	8856.5	5433.8	5058.7	5286.1	5466.3	5602.1	5676.0	5702.5	5720.3
25°	13073.6	7746.1	4807.7	4866.8	5023.3	5250.7	5360.0	5374.7	5365.9	5392.5
27.5°	12559.7	6556.0	4417.9	4606.9	4807.7	5002.6	5061.7	5052.8	5035.1	5064.7
30°	11939.6	5487.0	4169.8	4314.6	4589.2	4766.4	4819.5	4798.9	4763.4	4795.9
32.5°	11284.0	4612.8	3966.1	4110.8	4409.1	4583.3	4636.4	4615.8	4589.2	4615.8
35°	10672.7	4001.5	3777.1	3974.9	4267.3	4438.6	4506.5	4509.5	4509.5	4541.9
37.5°	10111.6	3644.2	3620.6	3889.3	4169.8	4323.4	4420.9	4426.8	4299.8	4308.6
40°	9591.8	3493.6	3549.7	3833.2	4075.3	4223.0	4228.9	3898.2	3664.9	3659.0
42.5°	9166.6	3464.0	3570.4	3827.3	4007.4	4013.3	3596.9	3340.0	3275.0	3278.0
45°	8767.9	3455.2	3617.6	3827.3	3907.0	3467.0	3186.4	3118.5	3124.4	3148.1
47.5°	8322.0	3419.7	3626.5	3774.1	3617.6	3083.1	3000.4	2970.9	2959.1	2965.0
50°	7834.7	3292.8	3514.2	3667.8	3121.5	2917.7	2814.4	2805.5	2820.3	2829.1
52.5°	7320.9	3086.0	3322.3	3475.9	2894.1	2773.0	2657.8	2678.5	2743.5	2764.1
55°	6984.2	2843.9	3068.3	3091.9	2734.6	2637.2	2539.7	2587.0	2708.0	2746.4
57.5°	6895.6	2587.0	2778.9	2752.3	2530.9	2519.0	2460.0	2501.3	2654.9	2711.0
60°	6869.0	2356.6	2495.4	2474.7	2333.0	2389.1	2374.3	2395.0	2448.2	2465.9
62.5°	6662.3	2173.5	2241.4	2211.9	2155.8	2253.3	2288.7	2244.4	2285.7	2306.4
65°	6136.6	2025.9	1993.4	1972.7	1996.3	2084.9	2155.8	2067.2	2105.6	2164.7
67.5°	5268.4	1825.0	1736.5	1760.1	1833.9	1881.2	1972.7	1872.3	1904.8	2005.2
70°	4261.4	1571.1	1491.3	1559.3	1630.1	1727.6	1742.4	1674.4	1751.2	1863.4
72.5°	3015.2	1314.2	1258.0	1396.8	1420.5	1547.5	1515.0	1482.5	1588.8	1627.2
75°	2090.8	1060.2	1027.7	1134.0	1219.7	1328.9	1305.3	1343.7	1568.1	1585.8
77.5°	1323.0	823.9	803.3	871.2	989.3	1110.4	1148.8	1585.8	2678.5	2784.8
80°	767.8	614.3	590.6	643.8	747.1	859.4	1107.4	1946.1	1766.0	1745.3
82.5°	428.2	422.3	392.8	407.5	499.1	620.2	1565.2	1370.3	1113.3	1148.8
85°	200.8	248.1	212.6	203.8	280.5	726.5	1045.4	782.6	519.8	507.9
87.5°	53.2	47.3	47.3	53.2	118.1	626.1	416.4	333.7	197.9	192.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)