

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: P943659

Luminaire Tested: **GALN-SB8B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41743 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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



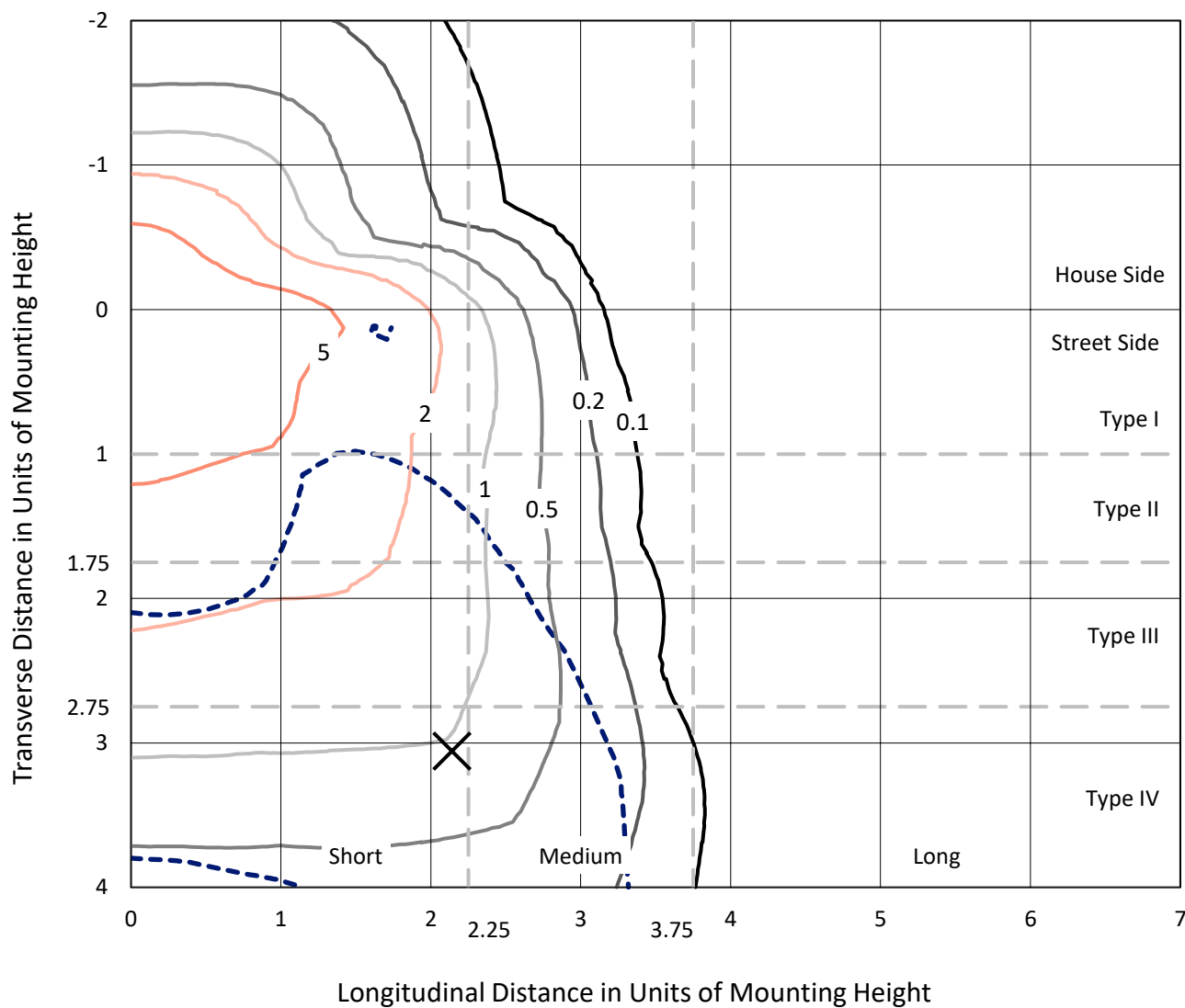
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

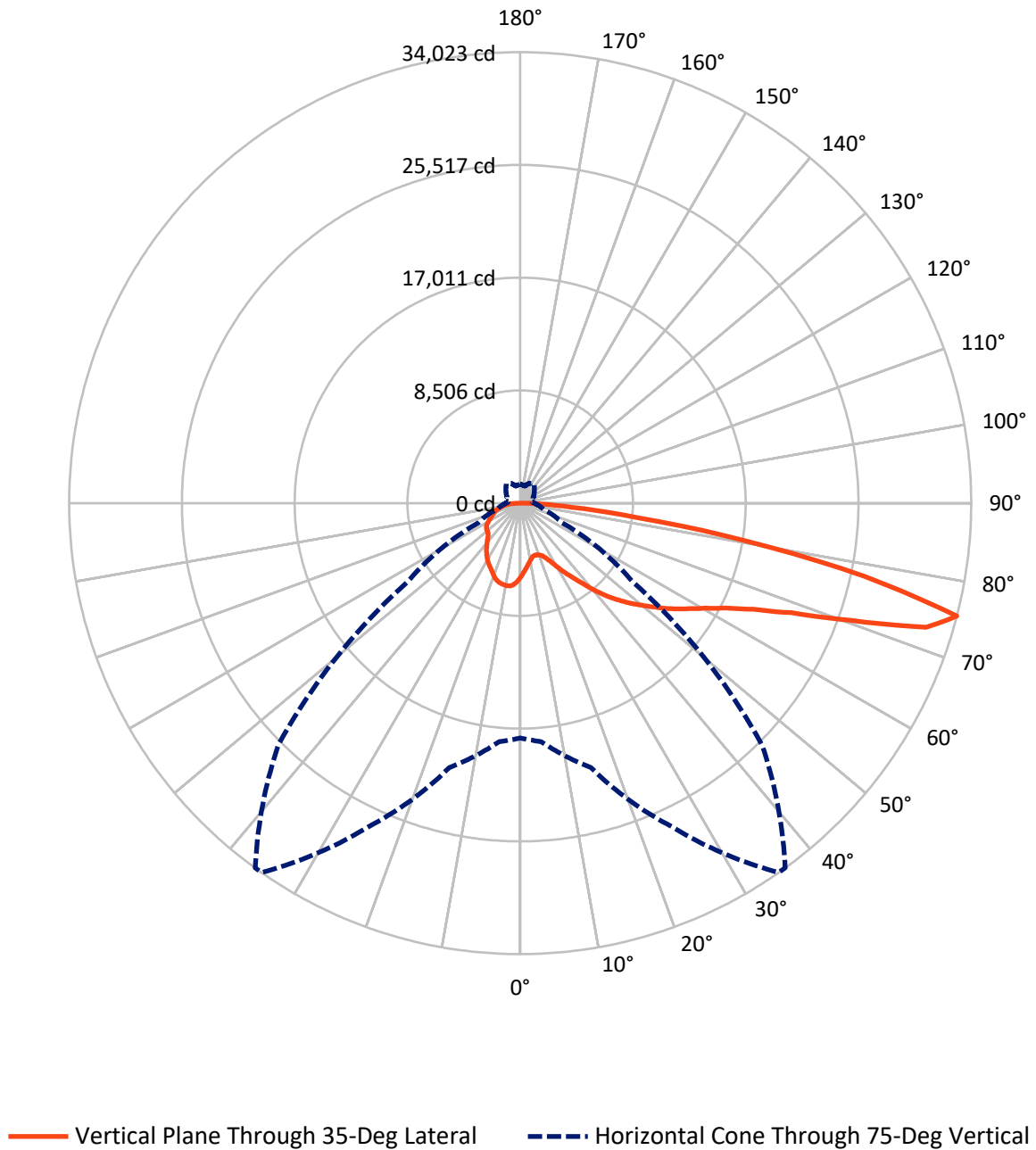


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9933.8	0.0	9933.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31809.2	0.0	31809.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	41743.0	0.0	41743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	1.3
10°-20°	1519.1	3.6
20°-30°	2551.0	6.1
30°-40°	3964.6	9.5
40°-50°	5884.5	14.1
50°-60°	8123.9	19.5
60°-70°	9856.2	23.6
70°-80°	8145.4	19.5
80°-90°	1171.6	2.8
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°	41743.0	100.0
0°-180°	41743.0	100.0

Coefficient of Utilization



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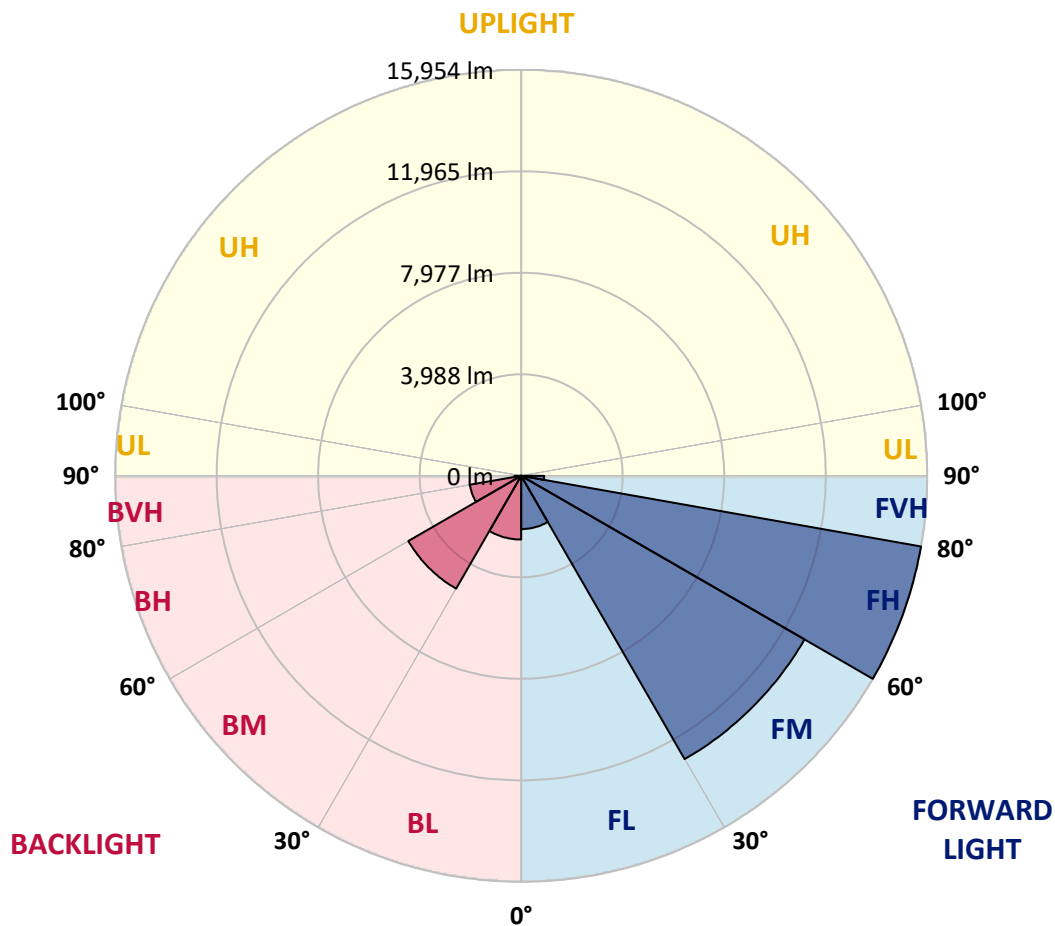
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2093.3	5.0			
FM	(30°-60°)	12854.6	30.8			
FH	(60°-80°)	15953.5	38.2			G5
FVH	(80°-90°)	907.7	2.2			G5
BL	(0°-30°)	2503.4	6.0	B4/5000		
BM	(30°-60°)	5118.5	12.3	B4/8500		
BH	(60°-80°)	2048.0	4.9	B3/2500		G3/2500
BVH	(80°-90°)	263.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5
2.5°	5129.3	5160.9	5174.4	5167.6	5201.5	5197.0	5244.4	5303.0	5384.3	5463.2	5578.3
5°	4734.4	4768.2	4797.5	4824.6	4890.1	4910.4	4984.8	5097.7	5246.6	5397.8	5587.4
7.5°	4366.5	4395.9	4441.0	4490.6	4601.2	4621.5	4745.6	4921.7	5129.3	5350.4	5612.2
10°	4066.4	4095.7	4143.1	4199.5	4337.2	4362.0	4520.0	4754.7	5025.5	5305.3	5639.3
12.5°	3937.8	3946.8	3973.9	4030.3	4149.9	4165.7	4339.5	4608.0	4923.9	5271.4	5679.9
15°	3931.0	3949.1	3951.3	3980.7	4079.9	4086.7	4246.9	4513.2	4860.7	5264.7	5740.8
17.5°	3998.7	4012.2	3991.9	4010.0	4093.5	4104.8	4231.1	4468.1	4840.4	5294.0	5844.6
20°	4179.2	4190.5	4129.6	4104.8	4165.7	4174.7	4298.8	4497.4	4860.7	5354.9	5986.8
22.5°	4562.9	4569.6	4420.7	4319.1	4323.7	4328.2	4436.5	4617.0	4939.7	5465.5	6167.3
25°	5160.9	5156.3	4919.4	4723.1	4610.2	4585.4	4657.6	4811.1	5072.9	5612.2	6399.7
27.5°	5860.4	5826.6	5589.6	5296.3	5050.3	5014.2	4998.4	5063.8	5262.4	5806.3	6684.1
30°	6650.2	6618.6	6363.6	5980.0	5639.3	5580.6	5431.7	5397.8	5544.5	6070.3	7079.0
32.5°	7516.8	7496.4	7191.8	6726.9	6271.1	6203.4	5952.9	5862.7	5977.8	6469.7	7629.6
35°	8243.4	8225.3	7972.6	7494.2	6936.8	6853.3	6598.3	6496.8	6555.4	6981.9	8349.4
37.5°	8900.1	8891.0	8674.4	8297.5	7722.1	7620.6	7334.0	7300.1	7288.8	7656.7	9222.8
40°	9509.3	9486.8	9261.1	9062.5	8636.0	8543.5	8290.8	8261.4	8175.7	8487.1	10211.1
42.5°	10184.1	10125.4	9798.2	9705.7	9590.6	9513.9	9362.7	9367.2	9177.6	9423.6	11258.2
45°	10734.7	10700.8	10364.6	10310.4	10434.6	10403.0	10533.8	10567.7	10199.9	10405.2	12345.9
47.5°	11325.9	11294.3	11010.0	10971.6	11307.9	11316.9	11779.5	11790.8	11197.3	11425.2	13435.8
50°	12054.8	12009.7	11727.6	11775.0	12151.8	12185.7	13031.9	12955.2	12115.7	12461.0	14516.8
52.5°	12535.5	12562.5	12501.6	12578.3	13092.8	13124.4	14264.0	14067.7	13025.1	13483.2	15577.4
55°	12889.7	12943.9	13133.5	13309.5	14085.7	14117.3	15426.2	15126.0	13778.8	14431.0	16574.8
57.5°	13345.6	13268.9	13623.1	13966.1	15029.0	15112.5	16556.7	16146.0	14446.8	15247.9	17258.5
60°	14000.0	13945.8	14221.1	14728.9	16085.1	16218.2	17752.7	17064.5	14936.5	15895.5	17391.7
62.5°	15326.9	15191.5	15234.4	15683.4	17416.5	17592.5	19102.2	17865.6	15180.2	16148.3	16678.6
65°	17310.4	17078.0	16861.4	17172.8	19291.7	19465.5	20625.4	18495.2	15089.9	15658.6	14785.3
67.5°	19808.5	19578.3	19312.0	19605.4	22053.8	22191.5	22505.1	18849.4	14379.1	13772.1	11438.7
70°	21868.8	21783.0	22101.2	23308.5	26465.5	26470.0	24915.2	18556.1	12431.6	9764.3	6618.6
72.5°	21595.7	21543.8	23220.5	26952.9	32025.8	31906.2	27196.6	16335.6	8374.3	4404.9	2480.0
75°	17716.6	18052.9	20650.2	26887.5	34022.9	34007.1	25799.8	10384.9	3463.9	1825.6	1281.8
77.5°	9500.3	10032.9	13406.5	19851.4	26560.3	26959.7	18138.6	3633.1	1487.1	1168.9	886.8
80°	3098.3	3563.2	5343.6	10107.3	17258.5	17184.1	7774.0	1426.2	1017.7	828.2	613.8
82.5°	1315.6	1369.8	2387.5	4772.7	8857.2	8719.5	2475.5	819.1	715.3	566.4	379.1
85°	514.5	575.4	1053.8	2207.0	3836.2	3752.7	893.6	406.2	458.1	370.1	225.7
87.5°	169.2	205.4	376.9	756.0	1193.7	1150.9	218.9	139.9	198.6	169.2	81.2
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°	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5	5562.5
2.5°	5609.9	5646.0	5688.9	5752.1	5806.3	5851.4	5898.8	5928.1	5939.4	5973.2	5971.0
5°	5650.5	5729.5	5835.6	5939.4	6040.9	6101.9	6156.0	6183.1	6207.9	6226.0	6230.5
7.5°	5718.2	5819.8	5986.8	6122.2	6207.9	6257.6	6293.7	6284.7	6293.7	6298.2	6305.0
10°	5776.9	5919.1	6117.7	6246.3	6311.7	6314.0	6305.0	6273.4	6257.6	6259.8	6264.3
12.5°	5846.9	6004.8	6219.2	6327.5	6345.6	6295.9	6257.6	6203.4	6183.1	6174.1	6169.6
15°	5941.6	6122.2	6329.8	6370.4	6325.3	6262.1	6196.6	6108.6	6063.5	6027.4	6038.7
17.5°	6056.7	6255.3	6415.5	6386.2	6289.2	6185.4	6079.3	5946.2	5853.6	5815.3	5817.5
20°	6217.0	6395.2	6481.0	6352.3	6205.7	6047.7	5867.2	5704.7	5619.0	5580.6	5576.1
22.5°	6411.0	6582.5	6544.2	6293.7	6086.1	5833.3	5607.7	5488.1	5445.2	5418.1	5422.6
25°	6643.5	6790.1	6589.3	6207.9	5889.7	5549.0	5375.2	5336.9	5316.6	5296.3	5296.3
27.5°	6945.8	7024.8	6623.1	6081.6	5582.8	5246.6	5183.4	5190.2	5183.4	5149.6	5156.3
30°	7345.3	7329.5	6654.7	5876.2	5230.8	4973.6	4978.1	5007.4	5011.9	4989.4	5000.6
32.5°	7871.0	7710.8	6670.5	5609.9	4894.6	4734.4	4738.9	4770.5	4793.0	4754.7	4772.7
35°	8507.4	8155.4	6645.7	5275.9	4635.1	4506.4	4472.6	4481.6	4488.4	4452.3	4477.1
37.5°	9249.8	8654.1	6535.1	4905.9	4420.7	4283.0	4210.8	4149.9	4113.8	4079.9	4102.5
40°	10064.5	9197.9	6332.0	4544.8	4181.5	4046.1	3937.8	3822.7	3700.8	3655.7	3676.0
42.5°	10917.5	9757.6	6086.1	4199.5	3906.2	3795.6	3680.5	3513.5	3330.8	3238.2	3249.5
45°	11802.1	10330.7	5844.6	3858.8	3624.1	3576.7	3443.6	3242.7	3044.2	2926.8	2917.8
47.5°	12668.6	10872.3	5490.3	3515.8	3360.1	3412.0	3308.2	3123.1	2902.0	2717.0	2696.6
50°	13496.8	11380.1	4910.4	3168.3	3145.7	3362.3	3263.1	2996.8	2744.0	2507.1	2486.8
52.5°	14318.2	11790.8	4168.0	2852.4	3030.6	3348.8	3204.4	2911.0	2601.9	2353.6	2326.6
55°	15015.5	12002.9	3452.6	2581.6	2863.6	3233.7	3134.4	2809.5	2401.0	2137.0	2114.4
57.5°	15412.6	11831.4	2856.9	2315.3	2633.5	3044.2	3014.8	2592.8	2161.8	1958.7	1931.7
60°	15241.1	11136.4	2369.4	2082.8	2414.6	2838.8	2807.2	2378.5	1979.0	1787.2	1760.2
62.5°	14295.6	9811.7	1983.6	1879.8	2216.0	2628.9	2599.6	2213.7	1839.1	1654.1	1624.8
65°	12391.0	7981.6	1683.4	1710.5	2015.2	2376.2	2419.1	2076.1	1728.6	1548.0	1518.7
67.5°	9450.7	5781.4	1448.7	1563.8	1818.8	2128.0	2252.1	1976.8	1636.0	1464.5	1437.5
70°	5386.5	3283.4	1250.2	1421.7	1645.1	1897.8	2123.5	1897.8	1536.7	1394.6	1376.5
72.5°	2042.2	1507.4	1080.9	1279.5	1478.1	1703.7	1981.3	1773.7	1421.7	1315.6	1297.5
75°	1089.9	918.4	909.4	1112.5	1286.3	1514.2	1803.0	1651.8	1335.9	1390.1	1435.2
77.5°	742.4	649.9	760.5	952.3	1076.4	1304.3	1613.5	1466.8	1157.6	1153.1	1062.9
80°	514.5	460.3	618.3	767.2	832.7	1096.7	1408.1	1259.2	943.3	880.1	841.7
82.5°	309.2	300.1	462.6	573.2	589.0	846.2	1166.7	1056.1	771.8	672.5	677.0
85°	169.2	178.3	295.6	336.2	343.0	591.2	913.9	816.9	593.5	498.7	503.2
87.5°	47.4	60.9	108.3	133.1	164.7	306.9	543.8	485.2	297.9	207.6	207.6
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)