

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: P456969

Luminaire Tested: **GALN-SA8B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41497 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

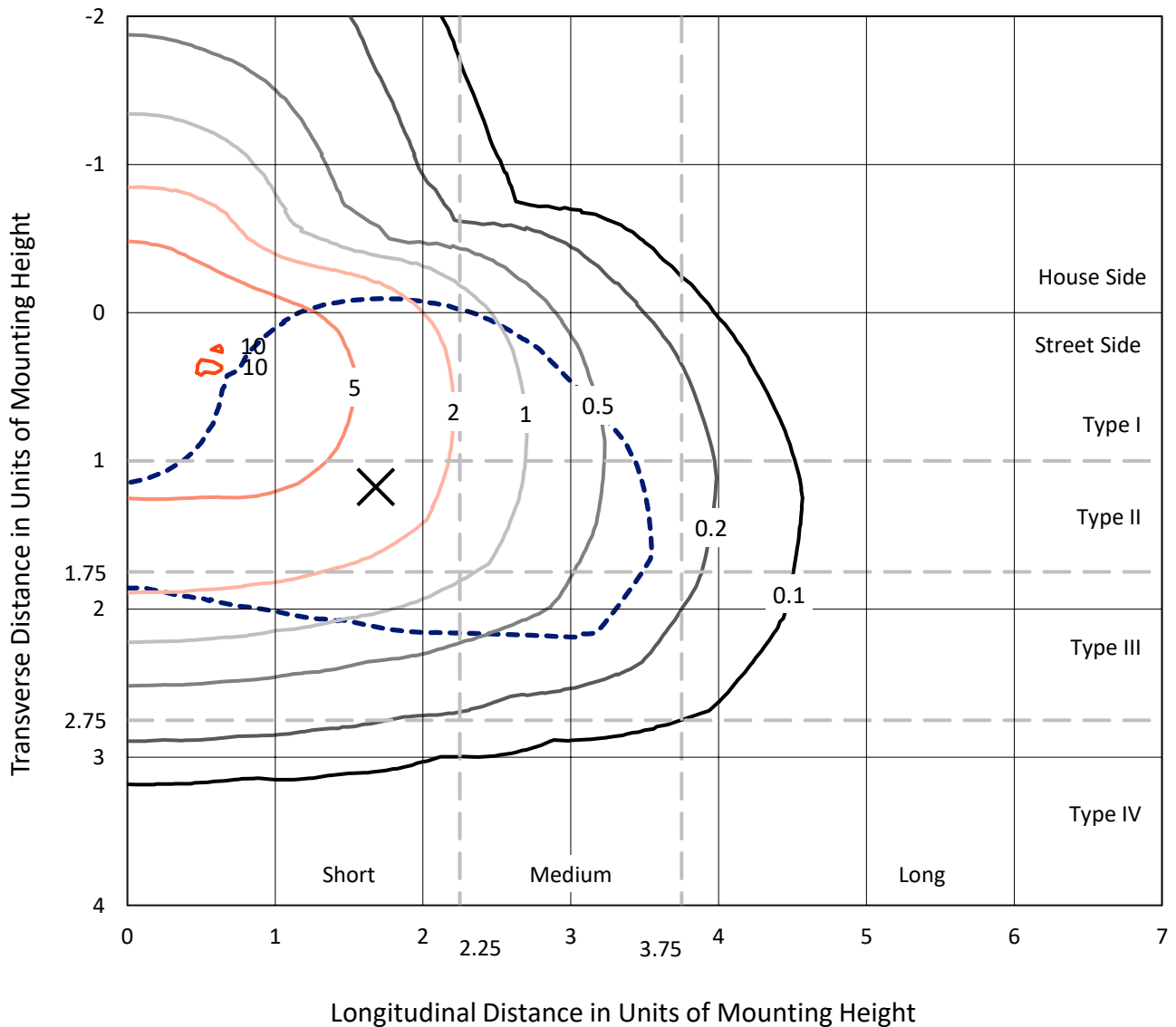
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

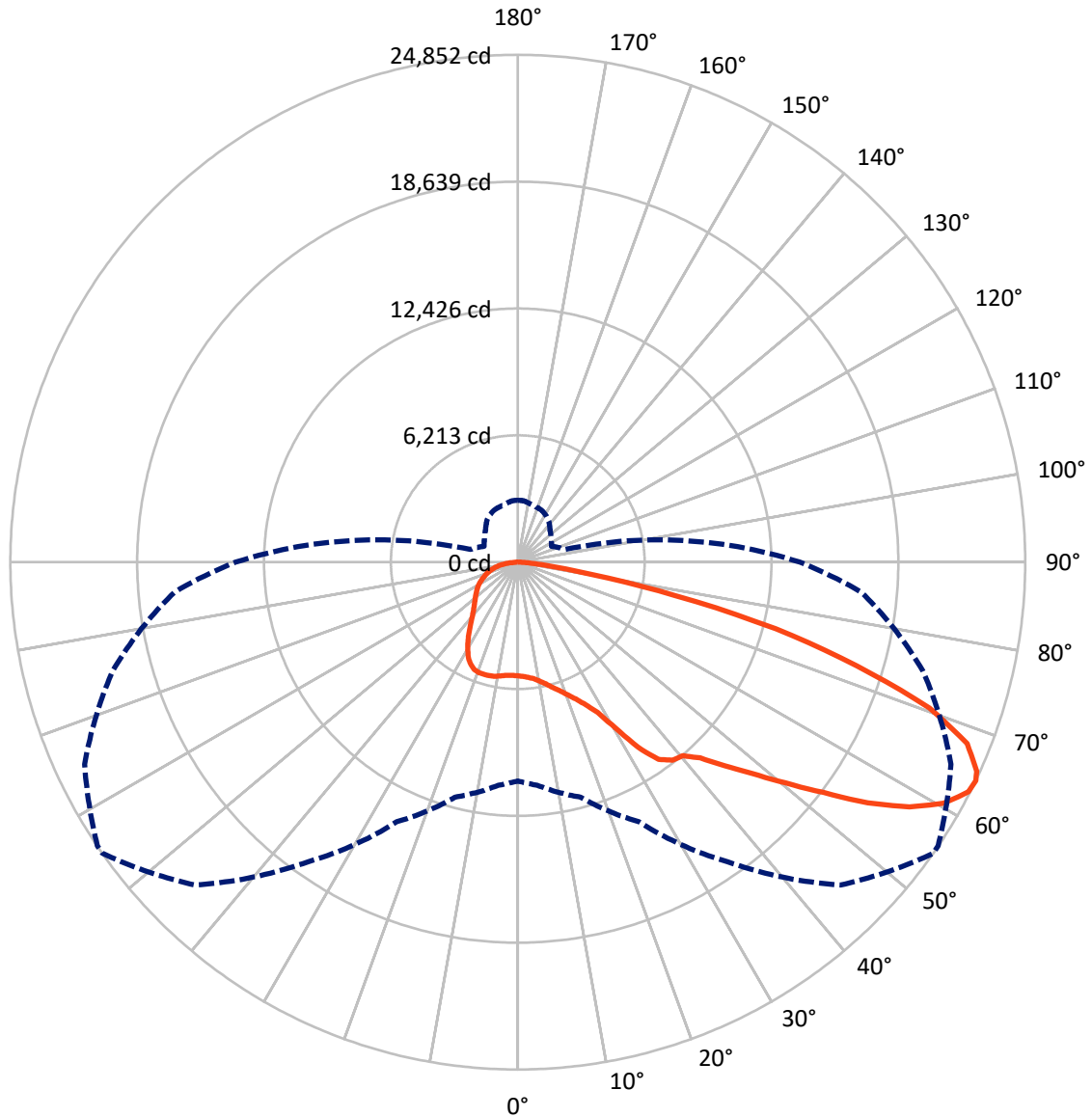
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10080.4	0.0	10080.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	31416.6	0.0	31416.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	41497.0	0.0	41497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.6	1.3
10°-20°	1708.9	4.1
20°-30°	3042.2	7.3
30°-40°	4680.8	11.3
40°-50°	6635.4	16.0
50°-60°	9604.6	23.1
60°-70°	9939.7	24.0
70°-80°	4654.8	11.2
80°-90°	689.1	1.7
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°	41497.0	100.0
0°-180°	41497.0	100.0

Coefficient of Utilization



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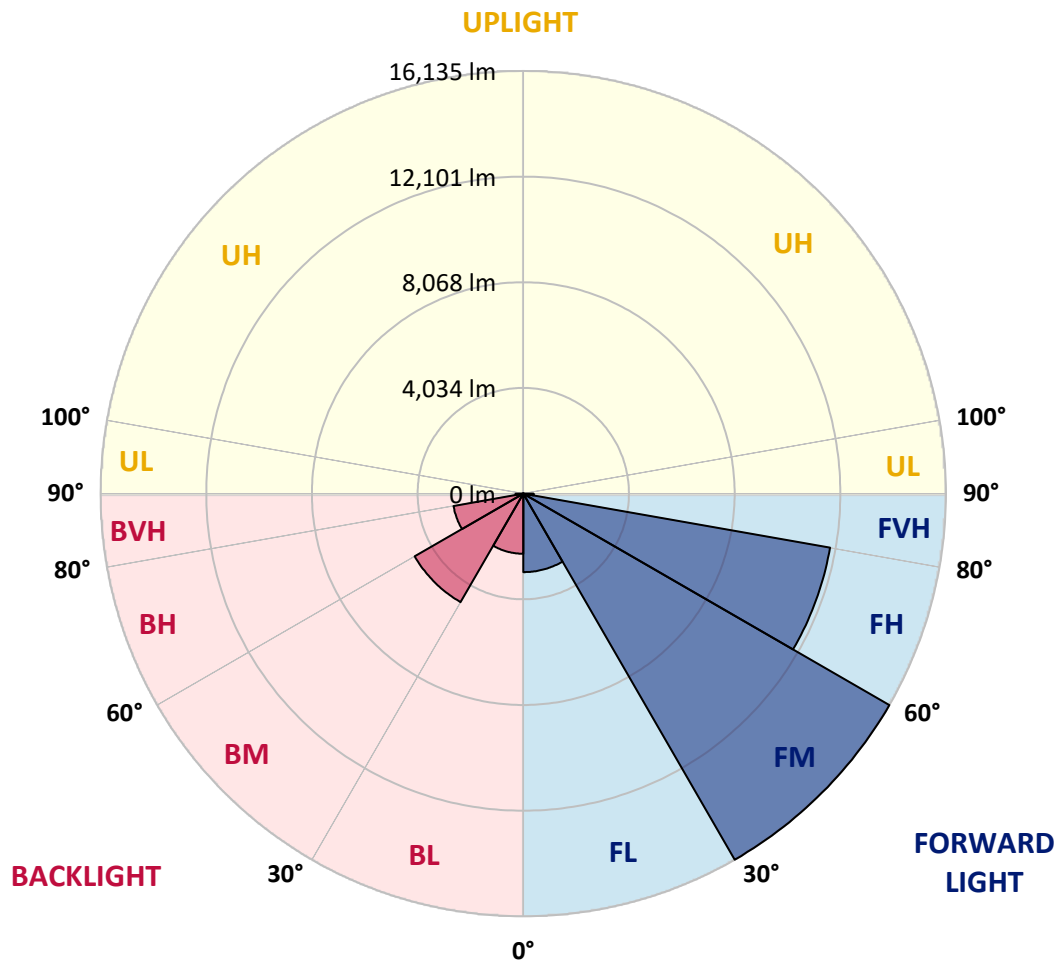
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2996.7	7.2			
FM	(30°-60°)	16135.2	38.9			
FH	(60°-80°)	11890.1	28.7			G4/12000
FVH	(80°-90°)	394.6	1.0			G3/500
BL	(0°-30°)	2295.9	5.5	B3/2500		
BM	(30°-60°)	4785.6	11.5	B3/5000		
BH	(60°-80°)	2704.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	294.5	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6
2.5°	5630.1	5627.8	5634.7	5627.8	5632.4	5616.2	5609.3	5613.9	5607.0	5595.4	5574.6
5°	5699.5	5697.2	5699.5	5690.2	5694.9	5685.6	5669.4	5674.0	5662.5	5637.0	5607.0
7.5°	5817.5	5808.2	5808.2	5805.9	5796.6	5782.8	5771.2	5766.6	5755.0	5722.6	5676.4
10°	5970.1	5970.1	5972.4	5953.9	5965.5	5940.1	5928.5	5926.2	5886.9	5845.2	5780.5
12.5°	6171.4	6182.9	6176.0	6166.7	6162.1	6152.9	6113.5	6122.8	6078.8	6007.1	5928.5
15°	6421.2	6439.7	6428.1	6423.5	6411.9	6377.2	6361.0	6354.1	6296.3	6192.2	6088.1
17.5°	6752.0	6728.8	6719.6	6708.0	6659.4	6634.0	6606.2	6601.6	6550.7	6428.1	6266.2
20°	7041.1	7073.5	7055.0	7043.4	6994.8	6946.3	6925.4	6918.5	6874.5	6740.4	6481.3
22.5°	7385.7	7392.7	7399.6	7371.9	7348.7	7311.7	7274.7	7263.2	7247.0	7108.2	6791.3
25°	7753.5	7781.3	7758.2	7730.4	7702.6	7700.3	7735.0	7730.4	7723.5	7589.3	7203.0
27.5°	8352.6	8378.1	8385.0	8354.9	8248.5	8257.8	8336.4	8361.9	8468.3	8246.2	7732.7
30°	8690.3	8715.8	8773.6	8887.0	9055.8	9203.8	9393.5	9451.3	9553.1	9134.5	8361.9
32.5°	8898.5	8907.8	9011.9	9222.4	9728.9	10281.8	10797.6	10818.4	10883.2	10295.6	8937.8
35°	9227.0	9233.9	9317.2	9548.5	10143.0	11063.6	11861.6	11887.0	11833.8	10656.5	9206.2
37.5°	9631.8	9650.3	9703.5	9895.5	10605.6	11718.2	12303.4	12284.9	11813.0	10943.3	9680.3
40°	10221.6	10221.6	10159.2	10418.2	11093.7	12092.9	12458.4	12426.0	12301.1	11773.7	10402.0
42.5°	10742.1	10732.8	10880.8	11056.6	11704.3	12671.2	13108.4	13161.6	13367.4	12816.9	11223.2
45°	11419.8	11461.4	11544.7	11863.9	12742.9	13658.9	14223.3	14274.2	14565.6	14045.2	12183.1
47.5°	12104.5	12118.4	12379.7	12805.4	14029.0	14998.2	15460.8	15544.1	15810.1	15481.6	13217.1
50°	12590.2	12722.1	13140.8	13811.6	15354.4	16631.2	16992.1	17091.5	17561.1	17045.3	14422.2
52.5°	13103.7	13233.3	13744.5	14766.9	16876.4	18301.3	18745.4	18812.5	19300.6	18627.4	15655.1
55°	13543.2	13663.5	14244.1	15613.5	18088.5	20006.0	20811.0	20732.4	20966.0	19846.4	16605.8
57.5°	13614.9	13712.1	14443.0	16154.7	18999.8	21467.9	22622.2	22668.4	22397.8	20757.8	17389.9
60°	13059.8	13258.7	14098.4	16096.9	19409.3	22485.7	23973.0	24005.4	23237.5	21225.1	17702.2
62.5°	12076.7	12055.9	13071.4	15167.0	18835.6	22717.0	24768.7	24734.0	23565.9	21000.7	17399.2
64°	10718.9	10968.7	11917.1	14024.4	17910.4	22360.8	24852.0	24833.5	23408.6	20533.4	16883.4
65°	9890.8	9877.0	10813.8	13089.9	16989.8	21824.2	24704.0	24678.5	23080.2	20114.8	16483.2
67.5°	7140.6	7172.9	8098.2	10101.3	13811.6	19726.2	23739.4	23644.6	21784.8	18726.9	14961.2
70°	4325.5	4344.0	5070.3	6701.1	9914.0	15946.5	21398.5	21403.2	19802.5	16654.4	12733.6
72.5°	2278.4	2327.0	2618.4	3805.1	6021.0	11188.5	17359.9	17771.6	17001.3	14214.0	10059.7
75°	1267.6	1274.5	1480.4	1875.9	3071.8	6261.6	13048.2	13166.2	13460.0	11440.6	7438.9
77.5°	966.9	980.8	1045.5	1212.1	1672.4	2902.9	7896.9	8489.1	9486.0	8065.8	4244.5
80°	784.1	798.0	853.5	953.0	1112.6	1376.3	3668.6	3987.8	5077.3	3580.7	1656.2
82.5°	610.7	601.4	673.1	737.9	809.6	814.2	1505.8	1665.4	2067.9	1540.5	717.1
85°	453.4	453.4	511.2	497.3	522.8	476.5	663.9	733.3	828.1	654.6	333.1
87.5°	180.4	198.9	335.4	300.7	233.6	187.4	245.2	259.1	286.8	256.8	138.8
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°	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6	5567.6
2.5°	5576.9	5583.8	5567.6	5556.1	5551.5	5544.5	5537.6	5539.9	5549.1	5558.4	5556.1
5°	5604.7	5607.0	5579.2	5565.3	5556.1	5546.8	5546.8	5553.8	5572.3	5586.1	5586.1
7.5°	5674.0	5674.0	5634.7	5609.3	5595.4	5579.2	5574.6	5576.9	5590.8	5609.3	5611.6
10°	5782.8	5773.5	5722.6	5683.3	5657.9	5618.5	5583.8	5565.3	5572.3	5583.8	5583.8
12.5°	5914.6	5889.2	5824.4	5771.2	5708.7	5634.7	5563.0	5526.0	5523.7	5535.3	5530.6
15°	6055.7	6028.0	5937.7	5840.6	5731.9	5623.2	5537.6	5484.4	5442.7	5431.2	5456.6
17.5°	6219.9	6162.1	6037.2	5903.0	5741.1	5600.0	5465.9	5357.2	5283.1	5262.3	5269.3
20°	6418.9	6342.5	6173.7	5963.2	5734.2	5516.8	5308.6	5162.9	5042.6	5005.6	5010.2
22.5°	6694.1	6562.3	6314.8	5993.3	5676.4	5359.5	5070.3	4880.7	4734.9	4677.1	4711.8
25°	7006.4	6863.0	6448.9	5986.3	5526.0	5107.3	4788.1	4540.6	4408.8	4323.2	4341.7
27.5°	7436.6	7182.2	6592.4	5923.9	5310.9	4799.7	4429.6	4196.0	4075.7	4031.7	4052.6
30°	7987.2	7596.2	6747.3	5755.0	4970.9	4411.1	4068.8	3916.1	3844.4	3788.9	3807.4
32.5°	8385.0	7887.7	6782.0	5470.5	4603.1	4057.2	3823.6	3710.2	3631.6	3578.4	3589.9
35°	8669.5	8135.2	6765.8	5121.2	4219.1	3765.7	3629.3	3536.7	3409.5	3293.9	3273.0
37.5°	9051.2	8445.1	6647.9	4739.6	3839.8	3569.1	3472.0	3300.8	3118.1	2963.1	2956.1
40°	9636.4	8808.3	6395.7	4290.8	3515.9	3423.4	3305.4	3083.4	2886.8	2761.8	2752.6
42.5°	10240.1	9143.7	6053.4	3818.9	3249.9	3270.7	3127.3	2907.6	2787.3	2706.3	2697.1
45°	10978.0	9506.9	5683.3	3409.5	3053.3	3127.3	2972.3	2845.1	2773.4	2720.2	2706.3
47.5°	11776.0	9879.3	5266.9	3041.7	2886.8	2995.5	2907.6	2849.7	2810.4	2773.4	2757.2
50°	12636.5	10295.6	4876.0	2745.7	2736.4	2859.0	2900.6	2879.8	2856.7	2845.1	2831.2
52.5°	13580.2	10721.2	4547.6	2537.5	2604.6	2761.8	2902.9	2919.1	2919.1	2912.2	2902.9
55°	14218.7	11017.3	4214.5	2368.6	2470.4	2683.2	2898.3	2960.8	2983.9	2974.7	2965.4
57.5°	14690.5	11179.2	3795.8	2222.9	2357.1	2606.9	2872.9	2965.4	2988.5	3000.1	2995.5
60°	14787.7	11028.9	3247.6	2070.2	2234.5	2495.8	2780.4	2896.0	2926.1	2997.8	3004.7
62.5°	14350.5	10566.3	2701.7	1919.9	2084.1	2327.0	2655.4	2817.4	2877.5	2988.5	3000.1
64°	13813.9	10048.1	2398.7	1825.0	1987.0	2232.1	2593.0	2796.5	2875.2	3023.2	3032.5
65°	13420.6	9671.1	2209.0	1764.9	1924.5	2169.7	2558.3	2803.5	2896.0	3076.4	3090.3
67.5°	11972.6	8373.4	1827.4	1623.8	1776.5	2063.3	2565.2	2861.3	2891.4	3097.2	3094.9
70°	9907.0	6666.4	1531.3	1494.3	1633.1	1977.7	2537.5	2768.8	2771.1	2907.6	2875.2
72.5°	7418.1	4926.9	1327.7	1360.1	1473.4	1774.2	2396.4	2643.9	2604.6	2623.1	2590.7
75°	5095.8	3259.2	1142.7	1216.7	1306.9	1568.3	2197.5	2401.0	2338.5	2315.4	2292.3
77.5°	2720.2	1801.9	950.7	1075.6	1135.7	1355.5	1917.6	2114.2	2049.4	1959.2	1929.1
80°	1101.0	848.9	765.6	890.5	925.2	1091.8	1596.0	1718.6	1670.1	1512.8	1461.9
82.5°	552.8	508.9	601.4	700.9	703.2	779.5	1186.6	1302.3	1193.6	1001.6	957.6
85°	289.1	298.4	414.0	492.7	434.9	421.0	712.4	788.8	724.0	629.2	566.7
87.5°	104.1	120.3	217.4	215.1	152.7	81.0	157.3	76.3	41.6	25.4	32.4
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)