

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: P532418

Luminaire Tested: **GALN-SA7D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42544 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

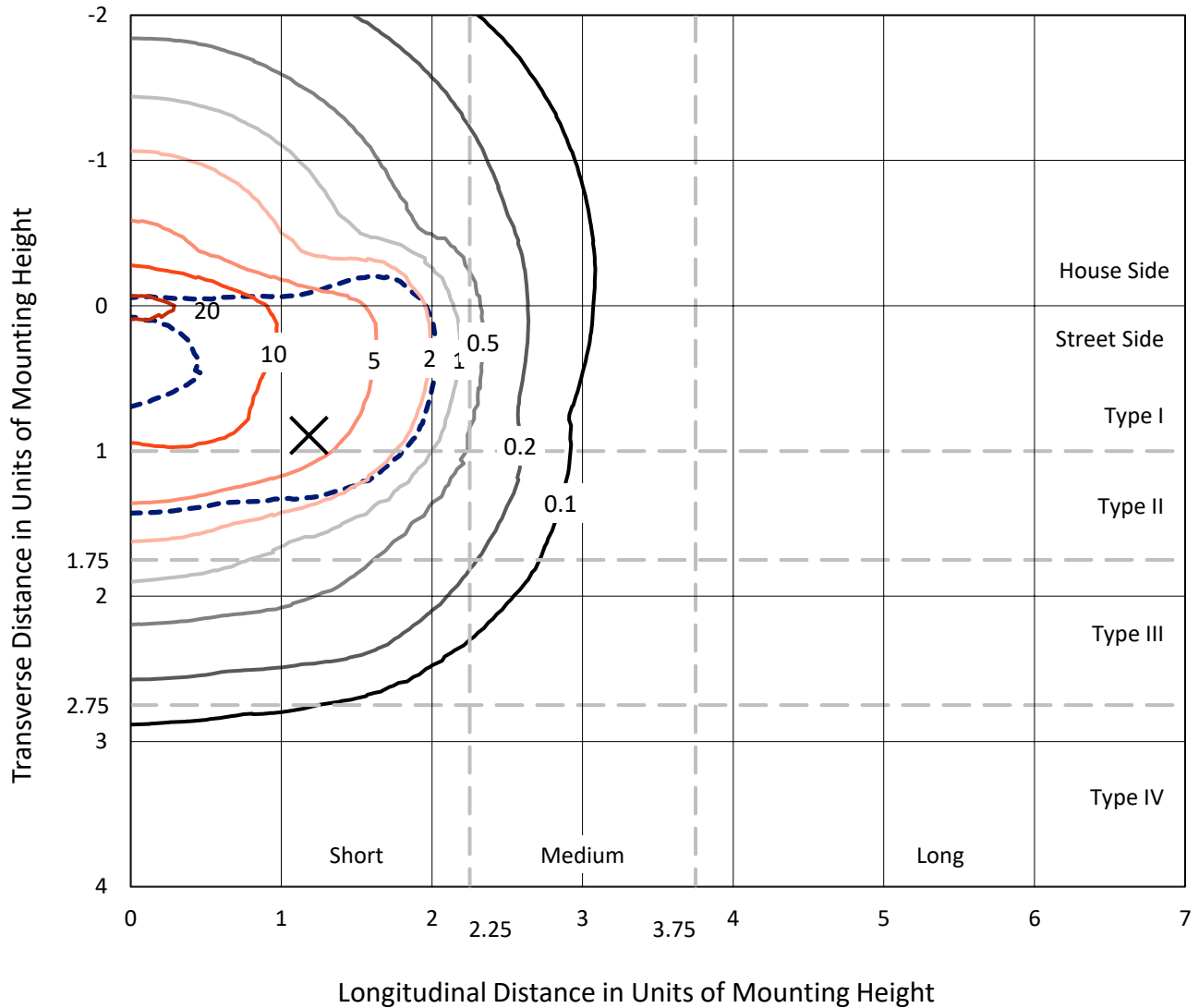
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

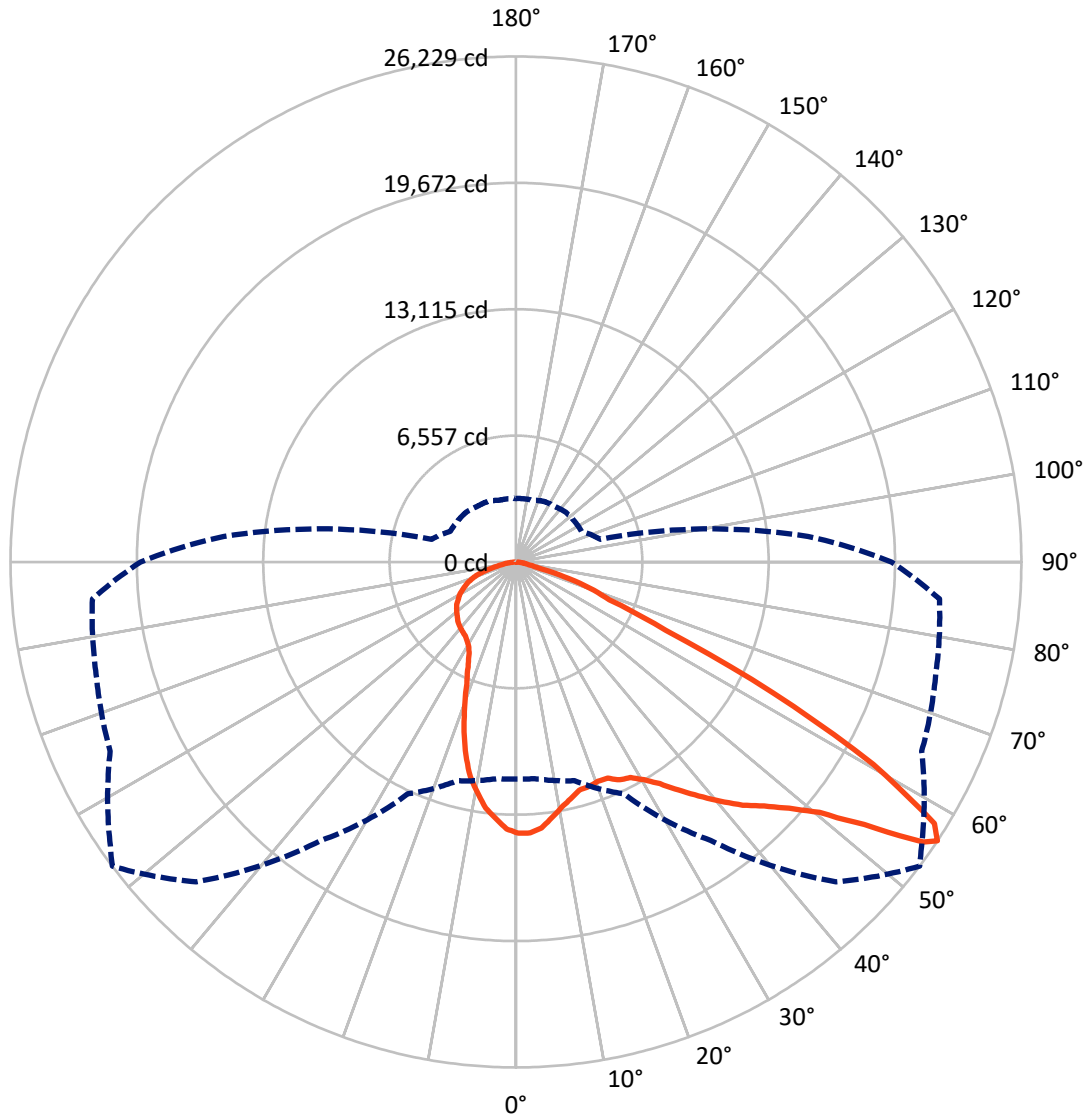
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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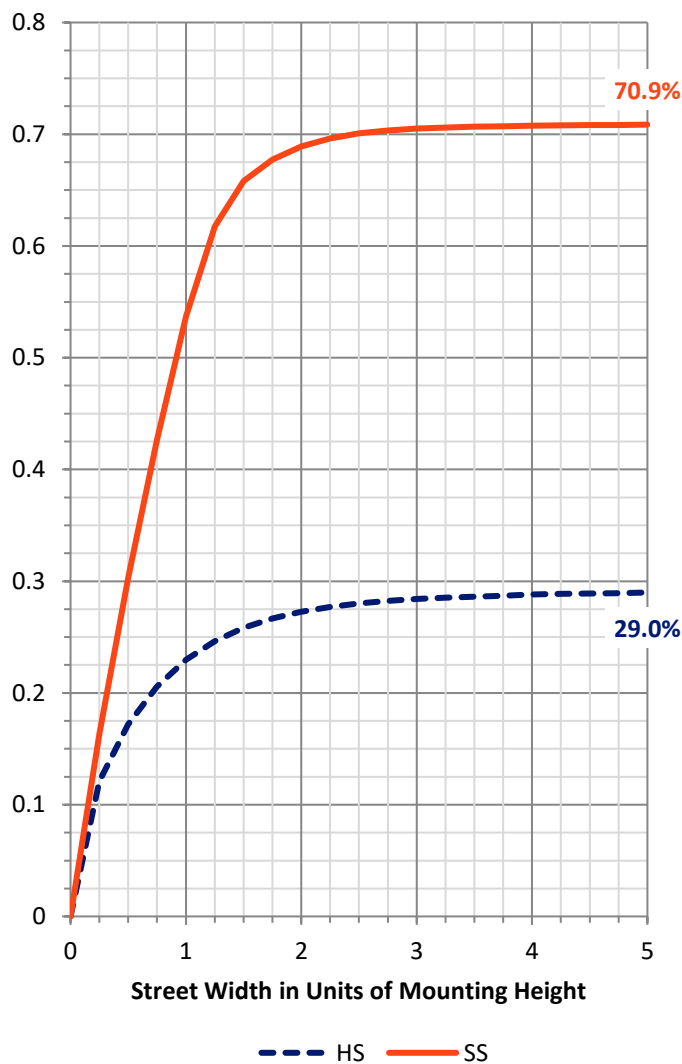
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12415.3	0.0	12415.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	30128.7	0.0	30128.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	42544.0	0.0	42544.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1246.0	2.9
10°-20°	3112.1	7.3
20°-30°	4589.1	10.8
30°-40°	6556.9	15.4
40°-50°	9024.7	21.2
50°-60°	10664.8	25.1
60°-70°	5683.6	13.4
70°-80°	1441.9	3.4
80°-90°	224.8	0.5
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°	42544.0	100.0
0°-180°	42544.0	100.0

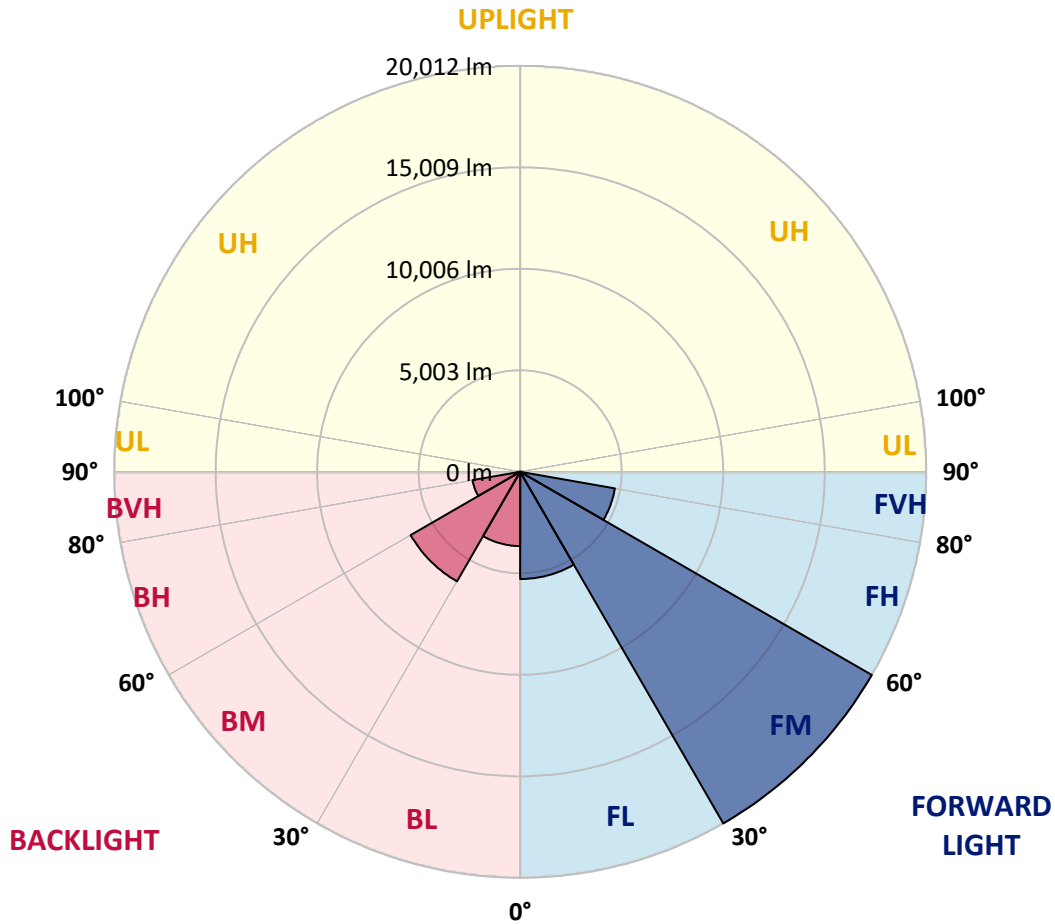


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5285.5	12.4			
FM (30°-60°)	20011.9	47.0			
FH (60°-80°)	4741.0	11.1			G2/5000
FVH (80°-90°)	90.4	0.2			G1/100
BL (0°-30°)	3661.8	8.6	B4/5000		
BM (30°-60°)	6234.5	14.7	B4/8500		
BH (60°-80°)	2384.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2
2.5°	13900.6	13780.5	13851.5	13824.2	14047.9	14113.4	14080.7	14108.0	14233.5	14173.5	14047.9
5°	12989.2	13158.3	13191.1	13273.0	13403.9	13660.5	13862.4	13917.0	13977.0	14255.3	14228.0
7.5°	12159.6	12274.2	12214.2	12454.3	12738.1	13152.9	13398.5	13442.1	13993.4	14146.2	14260.8
10°	11635.7	11521.1	11793.9	11859.4	12181.4	12656.2	12951.0	13131.1	13633.2	14239.0	14309.9
12.5°	11149.9	11111.7	11275.5	11461.0	11821.2	12312.4	12612.6	12683.5	13458.5	14097.1	14430.0
15°	10789.7	10746.1	10909.8	11046.2	11466.5	11903.1	12285.1	12487.1	13267.5	14015.2	14326.3
17.5°	10505.9	10500.5	10593.3	10838.9	11270.0	11635.7	12252.4	12263.3	13169.3	14140.7	14413.6
20°	10489.6	10484.1	10500.5	10773.4	11166.3	11613.8	12148.7	12246.9	13169.3	14053.4	14419.1
22.5°	10626.0	10538.7	10636.9	10811.6	11095.4	11652.0	12186.9	12405.2	13485.8	14484.6	14664.7
25°	10844.3	10866.1	10920.7	10980.8	11144.5	11739.4	12525.3	12705.4	13856.9	14855.7	15003.0
27.5°	11242.7	11231.8	11253.6	11286.4	11428.3	11821.2	12661.7	13125.6	14631.9	15516.0	15368.7
30°	11826.7	11788.5	11875.8	11990.4	11859.4	12083.2	13114.7	13464.0	15352.3	16181.9	15778.0
32.5°	12356.1	12498.0	12661.7	12710.8	12552.6	12596.2	13715.0	14069.8	15952.7	17000.5	16280.1
35°	13016.5	13131.1	13349.4	13502.2	13474.9	13343.9	14533.7	15003.0	16820.4	17600.9	16809.5
37.5°	13660.5	13796.9	14157.1	14610.1	14359.0	14299.0	15406.9	15794.4	17087.8	17922.9	17197.0
40°	14697.4	14691.9	15314.1	15548.8	15772.6	15668.9	16312.9	16443.8	17229.7	17851.9	17207.9
42.5°	15914.5	15838.0	16471.1	16836.8	17126.0	17137.0	17257.0	17213.4	17295.2	17491.7	17093.3
45°	17071.5	17235.2	17873.7	18528.7	18817.9	18850.7	18053.8	17972.0	17409.8	17388.0	16875.0
47.5°	18485.0	18523.2	19047.1	19909.4	20580.7	20351.5	19085.3	18905.2	17911.9	18081.1	17240.7
50°	18566.9	18850.7	19320.0	20335.1	22398.1	22338.1	20422.5	20084.1	18719.7	19063.5	18261.2
52.5°	16853.2	16787.7	17344.4	19003.5	22261.7	24313.7	22638.3	21830.5	20455.2	20193.2	19914.9
55°	12841.8	12994.6	13485.8	15161.3	19330.9	24341.0	25656.3	24996.0	22310.8	21863.3	21541.3
56°	11264.6	11286.4	11750.3	13278.4	17639.1	23473.3	26229.4	25694.5	23233.1	22550.9	22059.7
57.5°	9338.0	9212.5	9452.6	10287.6	14888.4	21639.5	25601.7	26125.7	24313.7	23293.2	22611.0
60°	7351.4	7324.1	7225.9	7378.7	9409.0	16301.9	21312.1	22490.9	24204.6	22594.6	21655.9
62.5°	6003.4	5867.0	6063.4	6281.7	6538.2	10113.0	14975.7	15668.9	19216.3	18037.5	16269.2
65°	4655.4	4589.9	4835.5	5545.0	5697.8	6423.6	8530.3	9065.1	11346.4	11144.5	9812.8
67.5°	3203.6	3214.5	3427.4	4508.0	5283.0	5217.5	5223.0	5501.3	5921.5	4398.9	3831.3
70°	2030.2	2024.8	2139.4	2903.5	4251.5	4295.2	4076.9	3995.0	3787.6	2292.2	2428.6
72.5°	1304.4	1266.2	1326.2	1604.5	2199.4	2543.3	2619.7	2668.8	2194.0	1801.0	1953.8
75°	736.8	698.6	676.7	747.7	867.8	1004.2	1102.4	1135.2	1271.6	1364.4	1446.3
77.5°	223.8	201.9	245.6	327.5	431.2	578.5	704.0	725.9	856.8	966.0	1047.9
80°	98.2	109.2	152.8	218.3	305.6	409.3	496.6	529.4	616.7	698.6	720.4
82.5°	60.0	65.5	103.7	147.4	212.8	289.3	354.7	365.7	453.0	518.5	534.8
85°	21.8	27.3	54.6	87.3	136.4	185.6	185.6	201.9	185.6	185.6	201.9
87.5°	0.0	0.0	5.5	10.9	10.9	16.4	21.8	21.8	27.3	32.7	38.2
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°	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2	14075.2
2.5°	14113.4	14086.1	14042.5	13884.2	13867.8	13818.7	13545.8	13502.2	13545.8	13414.9	13425.8
5°	14086.1	14168.0	13840.6	13682.3	13387.6	13174.7	12929.1	12803.6	12579.8	12437.9	12596.2
7.5°	14206.2	14173.5	13764.1	13420.3	12978.2	12437.9	12006.8	11761.2	11368.2	11259.1	11341.0
10°	14162.6	13987.9	13507.6	13054.7	12219.6	11744.8	11046.2	10369.5	9998.4	9807.4	9780.1
12.5°	14102.5	14053.4	13251.1	12470.7	11592.0	10593.3	9610.9	8972.3	8366.5	8104.6	8142.8
15°	14173.5	13758.7	12770.9	11783.0	10615.1	9305.3	8246.5	7422.4	7002.1	6833.0	6833.0
17.5°	14140.7	13616.8	12541.6	11013.5	9534.5	7984.5	6822.0	6325.4	6150.8	6150.8	6199.9
20°	14157.1	13709.6	12077.7	10244.0	8257.4	6723.8	5877.9	5697.8	5774.2	5801.5	5828.8
22.5°	14249.9	13403.9	11624.8	9398.0	7073.1	5752.3	5337.6	5343.0	5479.5	5626.8	5599.5
25°	14364.5	13283.9	11073.5	8557.6	6167.1	5277.5	5146.5	5130.2	5233.9	5310.3	5321.2
27.5°	14266.2	13076.5	10511.4	7509.7	5424.9	4961.0	4933.7	4944.6	4977.4	5130.2	5081.1
30°	14588.2	13136.5	9807.4	6631.0	5015.6	4857.3	4824.5	4808.2	4857.3	4901.0	4862.7
32.5°	14986.7	12923.7	9283.4	5785.1	4813.6	4780.9	4715.4	4693.6	4720.9	4677.2	4699.0
35°	15161.3	12885.5	8601.2	5179.3	4655.4	4628.1	4589.9	4584.4	4589.9	4551.7	4518.9
37.5°	15259.5	13065.6	7820.8	4901.0	4557.1	4584.4	4497.1	4486.2	4387.9	4409.8	4426.1
40°	15428.7	12787.2	7187.7	4633.5	4497.1	4442.5	4366.1	4349.7	4284.2	4246.0	4284.2
42.5°	15183.1	12705.4	6565.5	4518.9	4409.8	4349.7	4295.2	4202.4	4180.5	4147.8	4126.0
45°	14986.7	12236.0	6008.9	4377.0	4306.1	4273.3	4169.6	4071.4	3989.5	4022.3	3973.2
47.5°	15134.0	12072.3	5457.6	4257.0	4164.2	4126.0	4022.3	3945.9	3864.0	3825.8	3814.9
50°	15723.4	12377.9	4993.7	4169.6	4044.1	4022.3	3885.8	3798.5	3722.1	3694.8	3705.7
52.5°	17131.5	13212.9	4677.2	3989.5	3929.5	3831.3	3754.9	3645.7	3596.6	3509.3	3563.8
55°	18916.2	14571.9	4595.3	3820.3	3787.6	3700.3	3596.6	3514.7	3421.9	3351.0	3334.6
56°	19489.2	15221.3	4529.8	3754.9	3700.3	3651.2	3514.7	3465.6	3318.2	3301.9	3291.0
57.5°	19953.1	15794.4	4540.7	3629.3	3574.7	3531.1	3449.2	3329.2	3230.9	3170.9	3198.2
60°	18905.2	14784.7	4333.4	3438.3	3427.4	3345.5	3230.9	3176.3	3056.3	2985.3	2969.0
62.5°	14053.4	10036.6	3514.7	3192.7	3187.3	3099.9	2969.0	2908.9	2887.1	2788.8	2788.8
65°	8093.7	6292.6	3039.9	2990.8	2947.1	2859.8	2728.8	2679.7	2625.1	2592.4	2565.1
67.5°	3454.7	3263.7	2761.6	2756.1	2707.0	2597.8	2466.8	2390.4	2319.5	2254.0	2286.7
70°	2505.1	2543.3	2494.1	2466.8	2406.8	2270.4	2155.8	2063.0	1953.8	1910.2	1942.9
72.5°	1986.6	2068.4	2139.4	2144.8	2073.9	1915.6	1790.1	1664.6	1544.5	1484.5	1511.8
75°	1506.3	1560.9	1631.8	1648.2	1544.5	1435.4	1315.3	1184.3	1091.5	1020.6	1031.5
77.5°	1086.1	1075.2	1140.6	1129.7	1080.6	1004.2	895.1	775.0	671.3	605.8	611.3
80°	742.2	758.6	796.8	791.4	731.3	682.2	600.3	502.1	425.7	371.1	360.2
82.5°	518.5	545.8	578.5	551.2	502.1	453.0	392.9	322.0	262.0	218.3	207.4
85°	185.6	212.8	245.6	262.0	278.3	267.4	223.8	180.1	131.0	109.2	103.7
87.5°	38.2	43.7	49.1	49.1	49.1	43.7	38.2	38.2	32.7	16.4	16.4
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)