

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: P532429

Luminaire Tested: **GALN-SA7D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29974 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

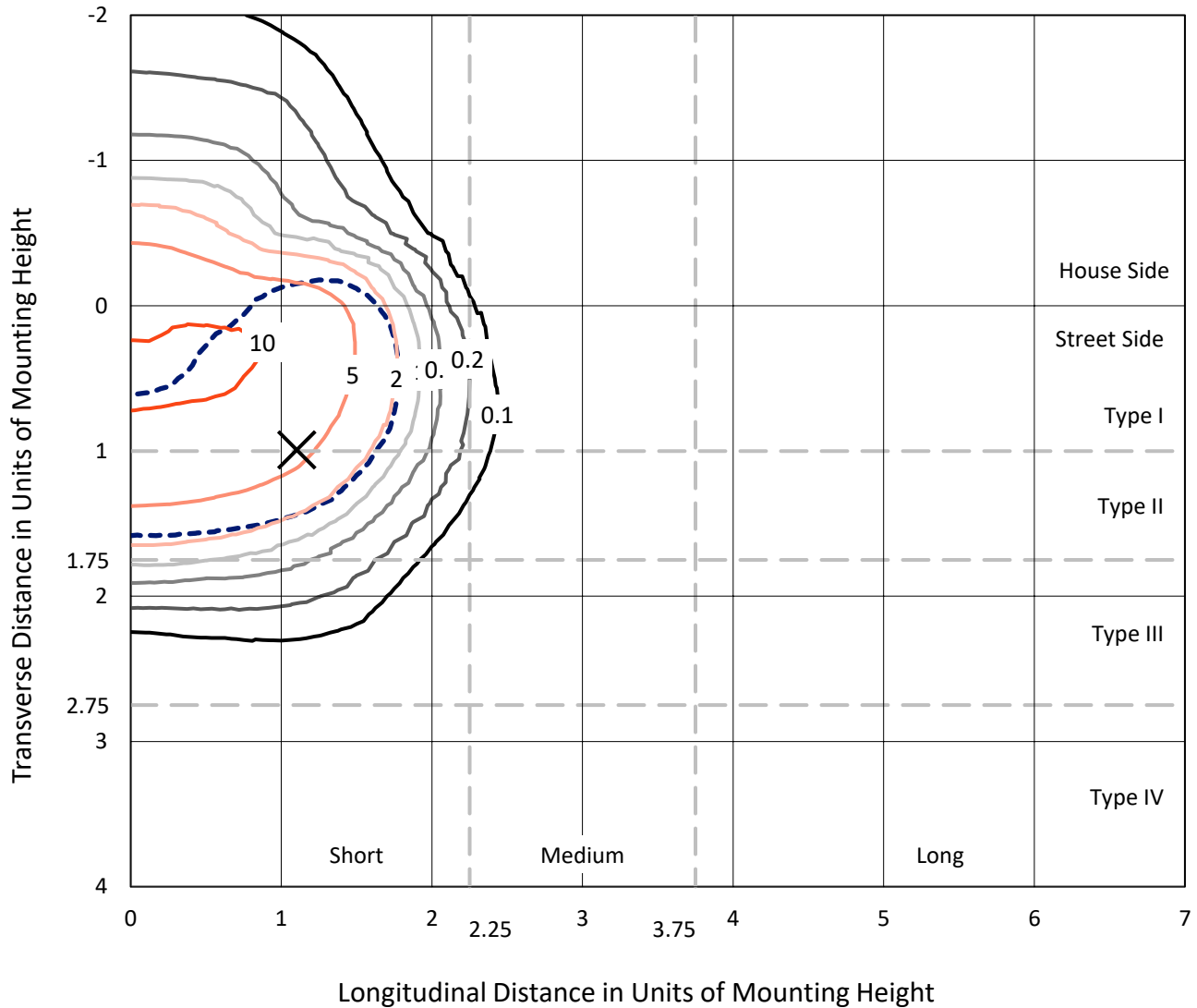
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

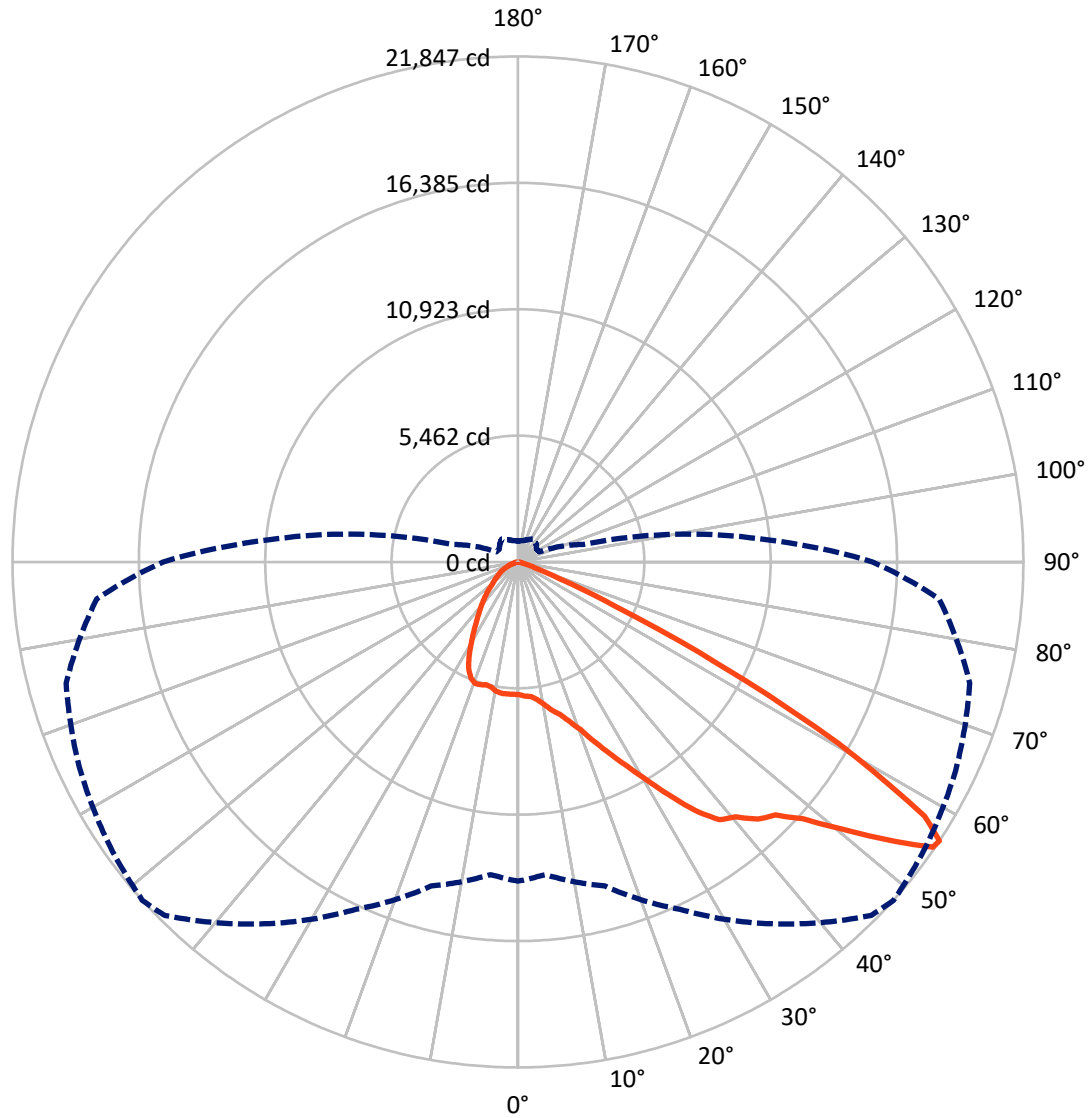
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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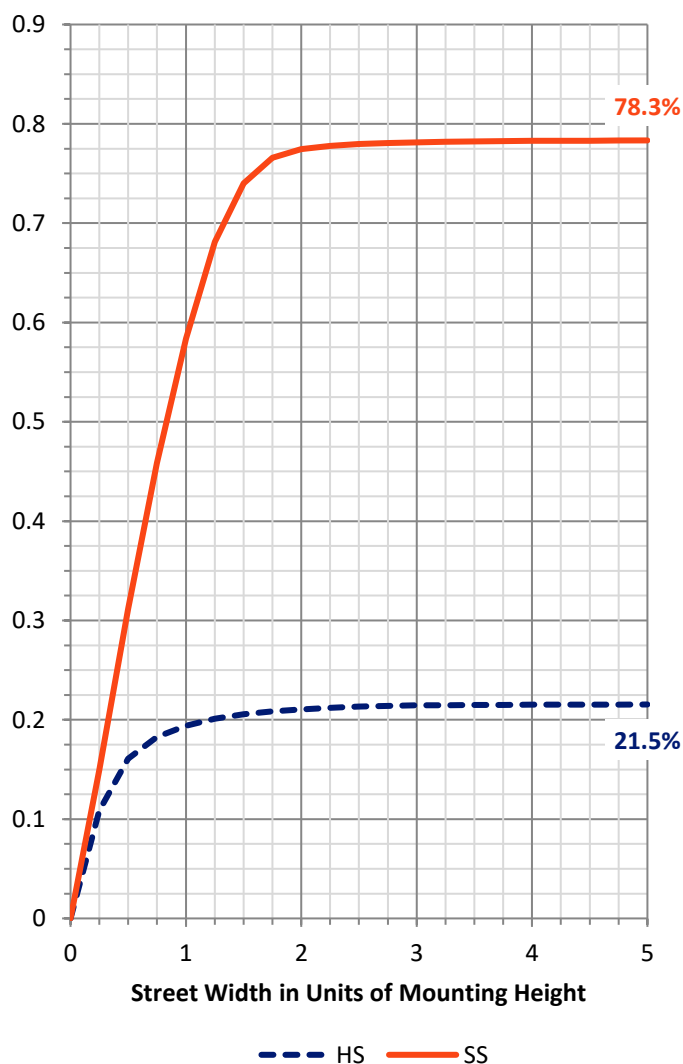
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6518.8	0.0	6518.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	23455.2	0.0	23455.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	29974.0	0.0	29974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.7	1.9
10°-20°	1782.3	5.9
20°-30°	3232.7	10.8
30°-40°	5077.9	16.9
40°-50°	7407.7	24.7
50°-60°	8924.8	29.8
60°-70°	2613.1	8.7
70°-80°	331.5	1.1
80°-90°	46.5	0.2
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°	29974.0	100.0
0°-180°	29974.0	100.0

Coefficient of Utilization

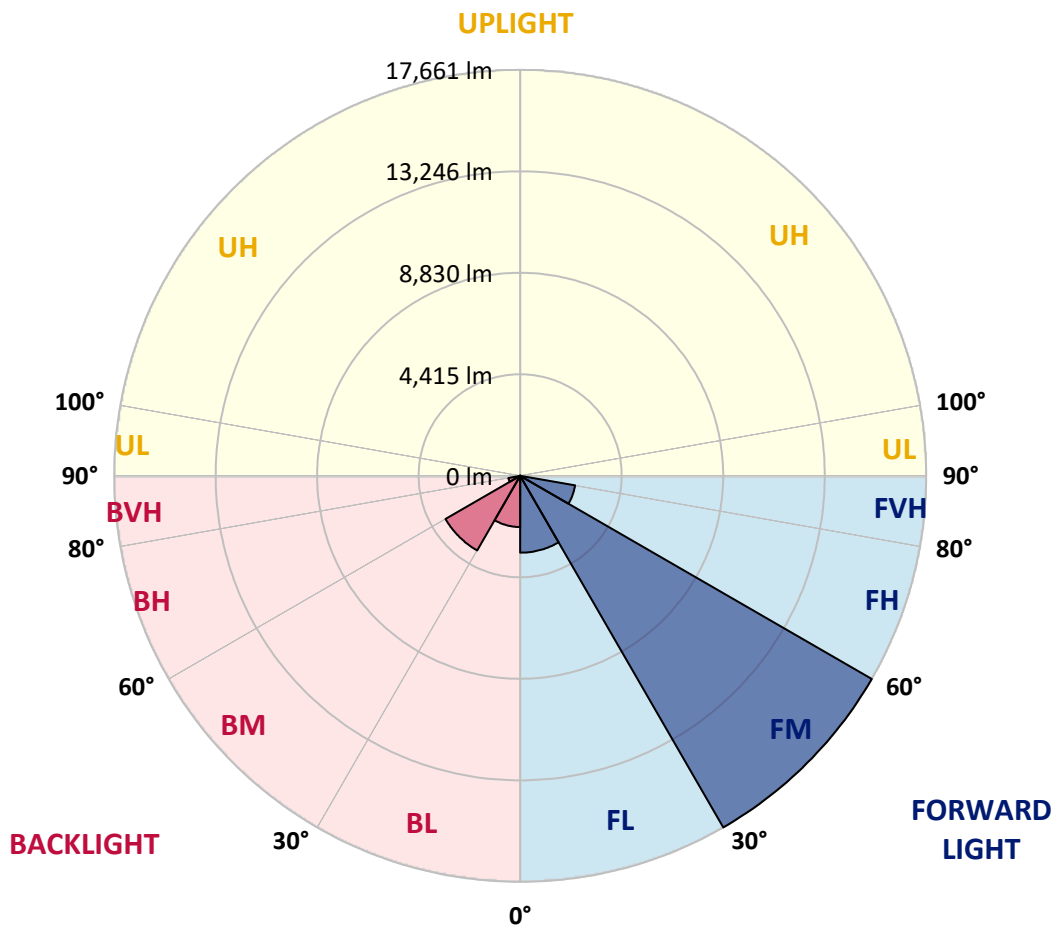


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3344.5	11.2			
FM (30°-60°)	17660.8	58.9			
FH (60°-80°)	2426.6	8.1			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	2228.1	7.4	B3/2500		
BM (30°-60°)	3749.6	12.5	B3/5000		
BH (60°-80°)	518.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	23.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0
2.5°	5828.7	5801.5	5801.5	5757.8	5806.9	5785.1	5801.5	5746.9	5801.5	5719.6	5785.1
5°	5856.0	5861.5	5839.7	5866.9	5866.9	5899.7	5845.1	5894.2	5921.5	5861.5	5834.2
7.5°	5997.9	6008.8	6003.4	5981.6	6025.2	6019.8	6014.3	5976.1	5987.0	5965.2	5932.4
10°	6276.3	6270.8	6298.1	6243.5	6210.8	6249.0	6259.9	6199.9	6156.2	6139.8	6036.1
12.5°	6680.1	6614.6	6576.4	6521.9	6538.2	6483.7	6581.9	6478.2	6456.4	6358.1	6254.4
15°	7007.6	6996.7	7002.1	6914.8	6816.6	6838.4	6838.4	6783.8	6751.1	6631.0	6483.7
17.5°	7678.9	7449.7	7498.8	7389.6	7307.8	7302.3	7253.2	7264.1	7176.8	6925.7	6702.0
20°	8202.8	8104.6	8028.2	7842.6	7717.1	7755.3	7733.5	7678.9	7651.6	7324.1	7007.6
22.5°	8672.2	8704.9	8579.4	8530.3	8355.6	8372.0	8415.7	8366.5	8159.1	7820.8	7351.4
25°	9332.5	9294.3	9125.1	9065.1	8901.4	8961.4	9130.6	9092.4	8961.4	8350.2	7618.8
27.5°	10113.0	9982.0	10014.7	9741.9	9583.6	9752.8	9954.7	10145.7	9774.6	8972.3	7935.4
30°	10664.2	10527.8	10516.8	10505.9	10467.7	10664.2	10898.9	11073.5	10773.3	9594.5	8459.3
32.5°	10937.1	10969.8	11062.6	11029.9	11362.8	11766.6	12012.2	12263.3	11886.7	10609.6	9152.4
35°	11662.9	11455.6	11662.9	11684.8	12028.6	12885.4	13196.5	13796.9	13704.1	12045.0	9998.4
37.5°	12088.6	12072.3	12099.6	12306.9	12639.9	13698.6	14140.7	14604.6	14430.0	12907.3	11051.7
40°	12792.7	12836.3	12830.9	12989.1	13354.8	14309.9	14490.0	14866.6	14882.9	14102.5	12601.7
42.5°	13922.4	13747.8	13633.1	13796.9	14309.9	14839.3	15199.5	15123.1	15663.4	15554.2	14593.7
45°	14937.5	15041.2	14872.0	15144.9	15330.5	15614.3	15603.3	15767.1	16454.7	16973.2	16094.5
47.5°	15887.1	15952.6	16034.5	16220.1	16623.9	16667.6	16574.8	16503.9	17453.5	17988.3	17257.0
50°	16454.7	16514.8	16896.8	17229.7	17982.9	18081.1	18135.7	17955.6	18599.6	18659.6	18354.0
52.5°	16301.9	16367.4	16902.3	17999.2	19199.9	20100.4	19936.7	19631.1	19592.9	19827.5	19369.1
55°	14948.4	14888.4	15625.2	17333.4	19582.0	21743.2	21765.0	21443.0	20826.3	20668.0	19216.3
56°	13796.9	13562.2	14500.9	16563.9	19090.8	21601.3	21846.9	21503.0	20924.5	20215.0	18272.1
57.5°	11302.7	11526.5	12459.8	14168.0	17393.4	20580.7	20722.6	20640.7	20204.1	19014.4	16078.2
60°	6232.6	6625.6	7449.7	9539.9	12383.3	15794.4	15909.0	16574.8	16656.7	14560.9	11062.6
62.5°	2646.9	2603.3	3460.1	4999.2	7051.2	9534.5	9747.3	10429.5	10555.0	8393.8	5550.4
65°	1075.2	1135.2	1566.3	2516.0	3727.6	4344.3	4644.4	4868.2	5283.0	3465.6	2046.6
67.5°	709.5	704.0	922.3	1435.4	2008.4	1937.5	1937.5	2046.6	1893.8	1413.5	884.1
70°	507.6	523.9	660.4	993.3	1249.8	927.8	889.6	851.4	966.0	933.3	714.9
72.5°	332.9	354.7	442.1	594.9	649.5	507.6	507.6	611.3	796.8	753.2	584.0
75°	218.3	223.8	272.9	343.8	322.0	262.0	289.3	409.3	578.5	556.7	414.8
77.5°	147.4	152.8	185.6	223.8	180.1	147.4	158.3	207.4	283.8	283.8	218.3
80°	54.6	60.0	76.4	70.9	81.9	103.7	114.6	141.9	169.2	169.2	147.4
82.5°	0.0	5.5	16.4	38.2	60.0	81.9	92.8	109.2	125.5	141.9	136.4
85°	0.0	5.5	16.4	27.3	43.7	49.1	54.6	38.2	32.7	32.7	27.3
87.5°	0.0	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.9	5.5	5.5
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°	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0	5725.0
2.5°	5725.0	5719.6	5719.6	5703.2	5736.0	5719.6	5730.5	5725.0	5654.1	5708.7	5670.5
5°	5785.1	5823.3	5763.3	5752.3	5708.7	5725.0	5725.0	5670.5	5719.6	5714.1	5703.2
7.5°	5937.9	5872.4	5806.9	5741.4	5730.5	5714.1	5654.1	5632.3	5670.5	5626.8	5692.3
10°	6003.4	6014.3	5916.1	5828.7	5746.9	5632.3	5550.4	5501.3	5441.3	5506.7	5544.9
12.5°	6303.6	6194.4	6025.2	5888.8	5610.4	5495.8	5414.0	5392.1	5495.8	5517.7	5479.5
15°	6407.2	6390.9	6172.6	5866.9	5577.7	5441.3	5457.6	5414.0	5424.9	5370.3	5381.2
17.5°	6620.1	6434.5	6178.0	5796.0	5572.2	5539.5	5441.3	5266.6	5168.4	5124.7	5162.9
20°	6854.8	6674.7	6303.6	5823.3	5621.4	5534.0	5212.0	4999.2	4797.3	4688.1	4693.6
22.5°	7062.2	6838.4	6249.0	5834.2	5665.0	5304.8	4917.3	4497.1	4246.0	4076.8	4082.3
25°	7313.2	6996.7	6270.8	5856.0	5550.4	4939.1	4382.5	3973.1	3673.0	3558.4	3596.6
27.5°	7455.1	7094.9	6390.9	5905.1	5250.2	4420.7	3820.3	3438.3	3263.7	3209.1	3203.6
30°	7880.8	7313.2	6538.2	5806.9	4748.1	3864.0	3307.3	3072.6	2903.5	2854.3	2865.3
32.5°	8513.9	7711.6	6729.2	5550.4	4235.1	3367.4	2974.4	2799.8	2641.5	2548.7	2537.8
35°	9043.3	8393.8	6931.2	5152.0	3640.2	2985.3	2739.7	2521.4	2281.3	2177.6	2150.3
37.5°	10052.9	9163.3	6887.5	4551.7	3072.6	2701.5	2488.7	2221.3	2013.9	1872.0	1855.6
40°	11395.5	10063.9	6674.7	3820.3	2652.4	2450.5	2221.3	1964.7	1708.2	1588.2	1577.3
42.5°	13027.3	11166.3	6287.2	3078.1	2232.2	2199.4	1992.0	1697.3	1468.1	1380.8	1386.2
45°	14353.5	12110.5	5894.2	2472.3	1921.1	1953.8	1773.7	1495.4	1337.1	1266.2	1266.2
47.5°	15532.4	12749.0	5468.5	2041.2	1631.8	1708.2	1550.0	1386.2	1249.8	1195.2	1184.3
50°	16667.6	13398.5	5042.8	1653.7	1391.7	1468.1	1451.7	1320.7	1211.6	1146.1	1151.6
52.5°	17377.1	13502.2	4502.5	1353.5	1217.1	1304.4	1358.9	1238.9	1118.8	1080.6	1069.7
55°	16509.3	12165.0	3492.9	1113.4	1031.5	1146.1	1249.8	1113.4	1020.6	955.1	949.6
56°	15341.4	10877.0	2919.8	1026.0	976.9	1102.4	1211.6	1064.2	960.5	922.3	895.1
57.5°	12989.1	8901.4	2155.8	911.4	906.0	1026.0	1151.6	1015.1	895.1	862.3	862.3
60°	8099.1	5010.1	1304.4	764.1	785.9	911.4	1036.9	906.0	796.8	796.8	813.2
62.5°	3689.4	2084.8	791.4	649.5	676.7	785.9	922.3	818.6	758.6	818.6	829.6
65°	1255.3	900.5	573.1	518.5	534.8	649.5	791.4	829.6	824.1	862.3	884.1
67.5°	704.0	578.5	480.3	431.2	420.2	480.3	649.5	829.6	796.8	780.4	791.4
70°	594.9	491.2	425.7	382.0	365.7	387.5	502.1	627.6	562.1	545.8	534.8
72.5°	480.3	409.3	371.1	343.8	294.7	251.1	229.2	240.1	267.4	283.8	311.1
75°	338.4	311.1	311.1	278.3	212.8	158.3	125.5	103.7	70.9	49.1	54.6
77.5°	191.0	191.0	196.5	169.2	136.4	103.7	76.4	54.6	27.3	10.9	5.5
80°	131.0	141.9	152.8	136.4	114.6	92.8	65.5	38.2	16.4	0.0	0.0
82.5°	131.0	147.4	158.3	136.4	114.6	87.3	65.5	38.2	16.4	5.5	0.0
85°	27.3	32.7	38.2	43.7	65.5	65.5	49.1	32.7	16.4	5.5	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.0	0.0
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)