

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: P532663

Luminaire Tested: **GALN-SA8A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532663
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-SA8A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 20543 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

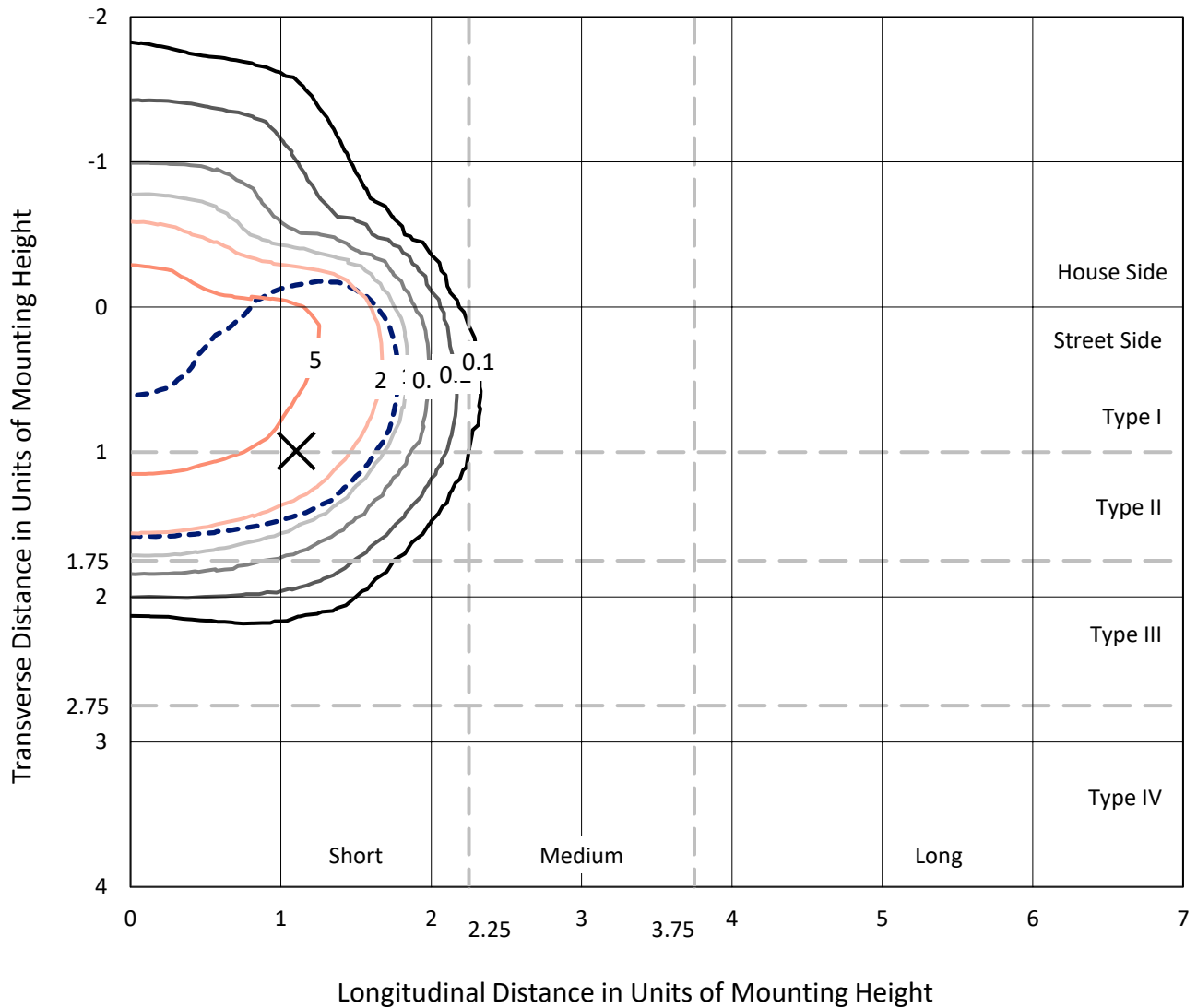
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

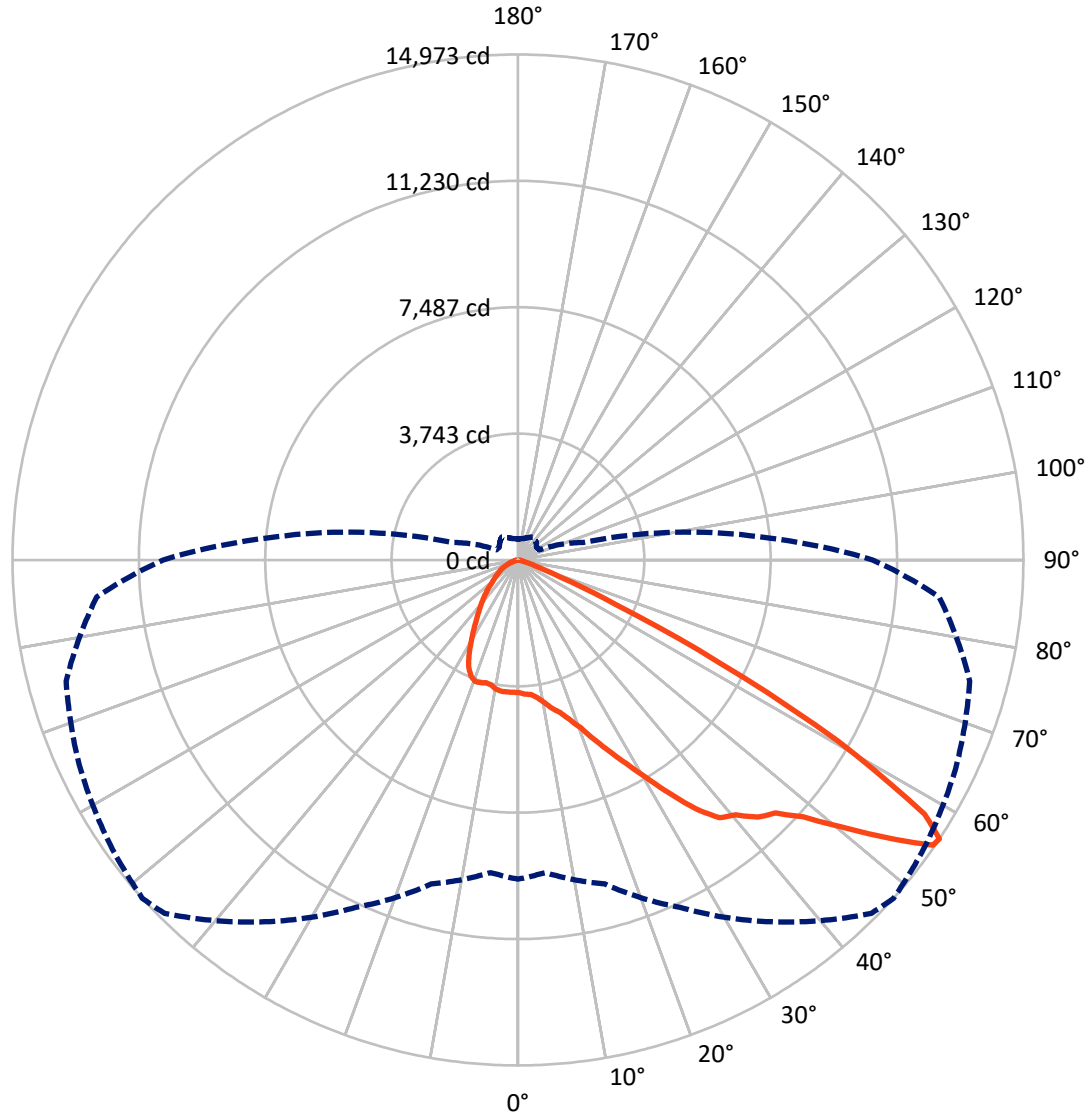
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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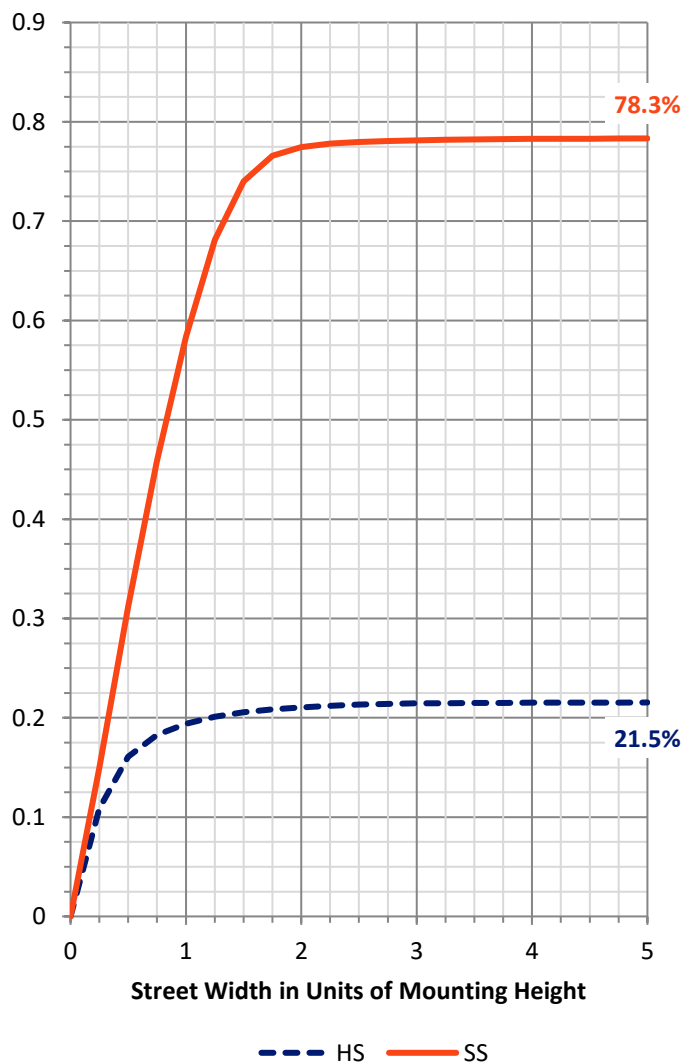
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4467.7	0.0	4467.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16075.3	0.0	16075.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	20543.0	0.0	20543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.9
10°-20°	1221.5	5.9
20°-30°	2215.5	10.8
30°-40°	3480.2	16.9
40°-50°	5076.9	24.7
50°-60°	6116.7	29.8
60°-70°	1790.9	8.7
70°-80°	227.2	1.1
80°-90°	31.8	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°	20543.0	100.0
0°-180°	20543.0	100.0

Coefficient of Utilization

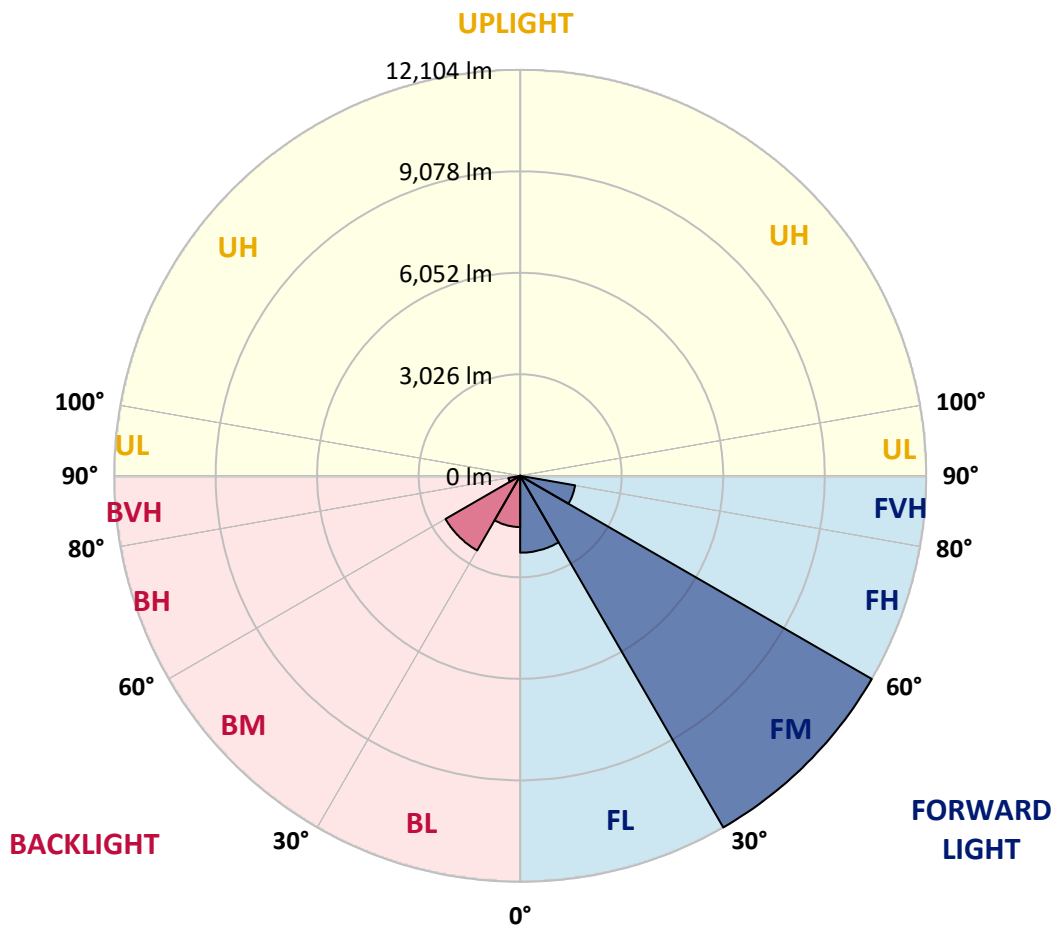


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.2	11.2			
FM (30°-60°)	12104.0	58.9			
FH (60°-80°)	1663.1	8.1			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1527.0	7.4	B3/2500		
BM (30°-60°)	2569.8	12.5	B3/5000		
BH (60°-80°)	355.0	1.7	B1/500		G1/500
BVH (80°-90°)	15.9	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7
2.5°	3994.8	3976.1	3976.1	3946.2	3979.8	3964.9	3976.1	3938.7	3976.1	3920.0	3964.9
5°	4013.5	4017.2	4002.3	4021.0	4021.0	4043.4	4006.0	4039.7	4058.4	4017.2	3998.5
7.5°	4110.7	4118.2	4114.5	4099.5	4129.4	4125.7	4122.0	4095.8	4103.3	4088.3	4065.9
10°	4301.5	4297.8	4316.5	4279.1	4256.6	4282.8	4290.3	4249.1	4219.2	4208.0	4136.9
12.5°	4578.3	4533.4	4507.2	4469.8	4481.0	4443.6	4511.0	4439.9	4424.9	4357.6	4286.5
15°	4802.7	4795.2	4799.0	4739.1	4671.8	4686.8	4686.8	4649.4	4626.9	4544.6	4443.6
17.5°	5262.8	5105.7	5139.4	5064.6	5008.4	5004.7	4971.0	4978.5	4918.7	4746.6	4593.3
20°	5621.9	5554.6	5502.2	5375.0	5289.0	5315.2	5300.2	5262.8	5244.1	5019.7	4802.7
22.5°	5943.6	5966.0	5880.0	5846.3	5726.6	5737.8	5767.8	5734.1	5592.0	5360.1	5038.4
25°	6396.2	6370.0	6254.0	6212.9	6100.7	6141.8	6257.8	6231.6	6141.8	5722.9	5221.7
27.5°	6931.0	6841.3	6863.7	6676.7	6568.2	6684.2	6822.6	6953.5	6699.1	6149.3	5438.6
30°	7308.8	7215.3	7207.8	7200.3	7174.2	7308.8	7469.7	7589.4	7383.6	6575.7	5797.7
32.5°	7495.8	7518.3	7581.9	7559.4	7787.6	8064.4	8232.7	8404.8	8146.7	7271.4	6272.7
35°	7993.3	7851.2	7993.3	8008.3	8243.9	8831.2	9044.4	9455.8	9392.2	8255.2	6852.5
37.5°	8285.1	8273.9	8292.6	8434.7	8662.9	9388.5	9691.5	10009.4	9889.7	8846.1	7574.4
40°	8767.6	8797.5	8793.8	8902.2	9152.9	9807.4	9930.9	10189.0	10200.2	9665.3	8636.7
42.5°	9541.9	9422.2	9343.6	9455.8	9807.4	10170.3	10417.1	10364.8	10735.1	10660.3	10001.9
45°	10237.6	10308.7	10192.7	10379.7	10506.9	10701.4	10693.9	10806.1	11277.4	11632.8	11030.6
47.5°	10888.4	10933.3	10989.4	11116.6	11393.4	11423.3	11359.7	11311.1	11961.9	12328.5	11827.3
50°	11277.4	11318.6	11580.4	11808.6	12324.8	12392.1	12429.5	12306.0	12747.4	12788.6	12579.1
52.5°	11172.7	11217.6	11584.1	12336.0	13158.9	13776.0	13663.8	13454.4	13428.2	13589.0	13274.8
55°	10245.1	10203.9	10708.9	11879.6	13420.7	14901.9	14916.9	14696.2	14273.5	14165.0	13170.1
56°	9455.8	9295.0	9938.3	11352.2	13084.1	14804.7	14973.0	14737.3	14340.8	13854.6	12523.0
57.5°	7746.5	7899.8	8539.4	9710.2	11920.8	14105.2	14202.5	14146.3	13847.1	13031.7	11019.3
60°	4271.6	4540.9	5105.7	6538.3	8487.1	10824.8	10903.4	11359.7	11415.8	9979.5	7581.9
62.5°	1814.1	1784.2	2371.4	3426.2	4832.6	6534.5	6680.4	7148.0	7234.0	5752.8	3804.0
65°	736.9	778.0	1073.5	1724.3	2554.7	2977.4	3183.1	3336.5	3620.7	2375.2	1402.7
67.5°	486.3	482.5	632.1	983.7	1376.5	1327.9	1327.9	1402.7	1297.9	968.8	606.0
70°	347.9	359.1	452.6	680.8	856.6	635.9	609.7	583.5	662.1	639.6	490.0
72.5°	228.2	243.1	303.0	407.7	445.1	347.9	347.9	418.9	546.1	516.2	400.2
75°	149.6	153.4	187.0	235.6	220.7	179.5	198.2	280.5	396.5	381.5	284.3
77.5°	101.0	104.7	127.2	153.4	123.4	101.0	108.5	142.1	194.5	194.5	149.6
80°	37.4	41.1	52.4	48.6	56.1	71.1	78.5	97.3	116.0	116.0	101.0
82.5°	0.0	3.7	11.2	26.2	41.1	56.1	63.6	74.8	86.0	97.3	93.5
85°	0.0	3.7	11.2	18.7	29.9	33.7	37.4	26.2	22.4	22.4	18.7
87.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.5	3.7	3.7
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°	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7	3923.7
2.5°	3923.7	3920.0	3920.0	3908.8	3931.2	3920.0	3927.5	3923.7	3875.1	3912.5	3886.3
5°	3964.9	3991.0	3949.9	3942.4	3912.5	3923.7	3923.7	3886.3	3920.0	3916.2	3908.8
7.5°	4069.6	4024.7	3979.8	3934.9	3927.5	3916.2	3875.1	3860.1	3886.3	3856.4	3901.3
10°	4114.5	4122.0	4054.6	3994.8	3938.7	3860.1	3804.0	3770.4	3729.2	3774.1	3800.3
12.5°	4320.2	4245.4	4129.4	4035.9	3845.2	3766.6	3710.5	3695.6	3766.6	3781.6	3755.4
15°	4391.3	4380.1	4230.4	4021.0	3822.7	3729.2	3740.4	3710.5	3718.0	3680.6	3688.1
17.5°	4537.2	4410.0	4234.2	3972.3	3819.0	3796.5	3729.2	3609.5	3542.2	3512.3	3538.5
20°	4698.0	4574.6	4320.2	3991.0	3852.7	3792.8	3572.1	3426.2	3287.8	3213.0	3216.8
22.5°	4840.1	4686.8	4282.8	3998.5	3882.6	3635.7	3370.1	3082.1	2910.1	2794.1	2797.8
25°	5012.2	4795.2	4297.8	4013.5	3804.0	3385.1	3003.6	2723.0	2517.3	2438.8	2465.0
27.5°	5109.4	4862.6	4380.1	4047.2	3598.3	3029.8	2618.3	2356.5	2236.8	2199.4	2195.6
30°	5401.2	5012.2	4481.0	3979.8	3254.2	2648.2	2266.7	2105.9	1989.9	1956.3	1963.7
32.5°	5835.1	5285.2	4612.0	3804.0	2902.6	2307.9	2038.5	1918.8	1810.4	1746.8	1739.3
35°	6197.9	5752.8	4750.4	3531.0	2494.9	2046.0	1877.7	1728.1	1563.5	1492.4	1473.7
37.5°	6889.9	6280.2	4720.4	3119.5	2105.9	1851.5	1705.6	1522.4	1380.2	1283.0	1271.7
40°	7810.0	6897.4	4574.6	2618.3	1817.9	1679.5	1522.4	1346.6	1170.8	1088.5	1081.0
42.5°	8928.4	7652.9	4309.0	2109.6	1529.8	1507.4	1365.3	1163.3	1006.2	946.3	950.1
45°	9837.4	8300.0	4039.7	1694.4	1316.6	1339.1	1215.6	1024.9	916.4	867.8	867.8
47.5°	10645.3	8737.7	3747.9	1398.9	1118.4	1170.8	1062.3	950.1	856.6	819.2	811.7
50°	11423.3	9182.8	3456.2	1133.4	953.8	1006.2	995.0	905.2	830.4	785.5	789.2
52.5°	11909.6	9253.8	3085.9	927.6	834.1	894.0	931.4	849.1	766.8	740.6	733.1
55°	11314.8	8337.4	2393.9	763.0	706.9	785.5	856.6	763.0	699.5	654.6	650.8
56°	10514.4	7454.7	2001.1	703.2	669.5	755.6	830.4	729.4	658.3	632.1	613.4
57.5°	8902.2	6100.7	1477.5	624.7	620.9	703.2	789.2	695.7	613.4	591.0	591.0
60°	5550.8	3433.7	894.0	523.7	538.6	624.7	710.7	620.9	546.1	546.1	557.3
62.5°	2528.5	1428.8	542.4	445.1	463.8	538.6	632.1	561.1	519.9	561.1	568.5
65°	860.3	617.2	392.7	355.3	366.6	445.1	542.4	568.5	564.8	591.0	606.0
67.5°	482.5	396.5	329.2	295.5	288.0	329.2	445.1	568.5	546.1	534.9	542.4
70°	407.7	336.6	291.8	261.8	250.6	265.6	344.1	430.2	385.3	374.0	366.6
72.5°	329.2	280.5	254.3	235.6	202.0	172.1	157.1	164.6	183.3	194.5	213.2
75°	231.9	213.2	213.2	190.8	145.9	108.5	86.0	71.1	48.6	33.7	37.4
77.5°	130.9	130.9	134.7	116.0	93.5	71.1	52.4	37.4	18.7	7.5	3.7
80°	89.8	97.3	104.7	93.5	78.5	63.6	44.9	26.2	11.2	0.0	0.0
82.5°	89.8	101.0	108.5	93.5	78.5	59.8	44.9	26.2	11.2	3.7	0.0
85°	18.7	22.4	26.2	29.9	44.9	44.9	33.7	22.4	11.2	3.7	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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)