

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: P532689

Luminaire Tested: **GALN-SA8A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532689
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-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 22052 lumens
Efficiency: N/A
Efficacy: 90.4 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

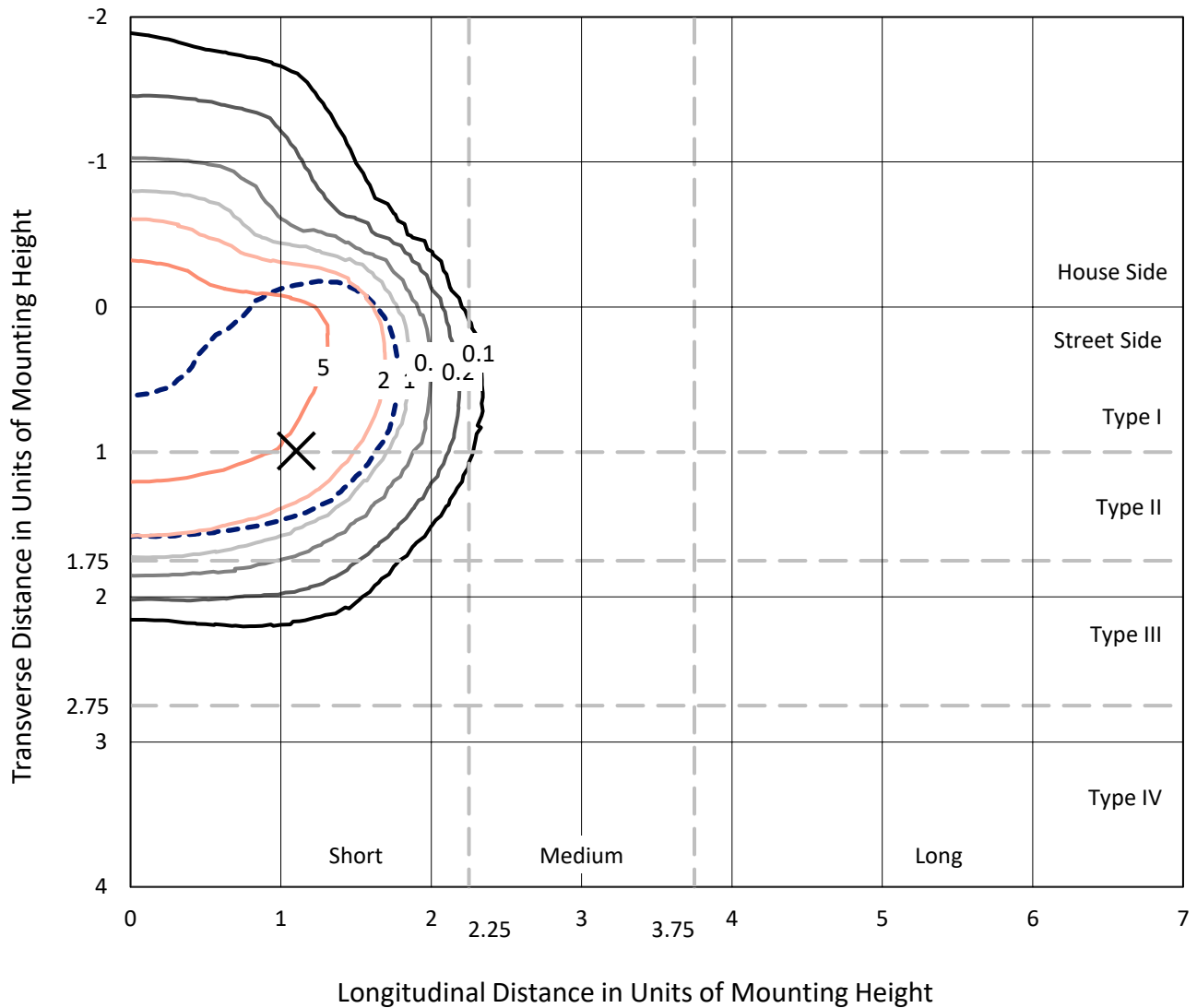
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

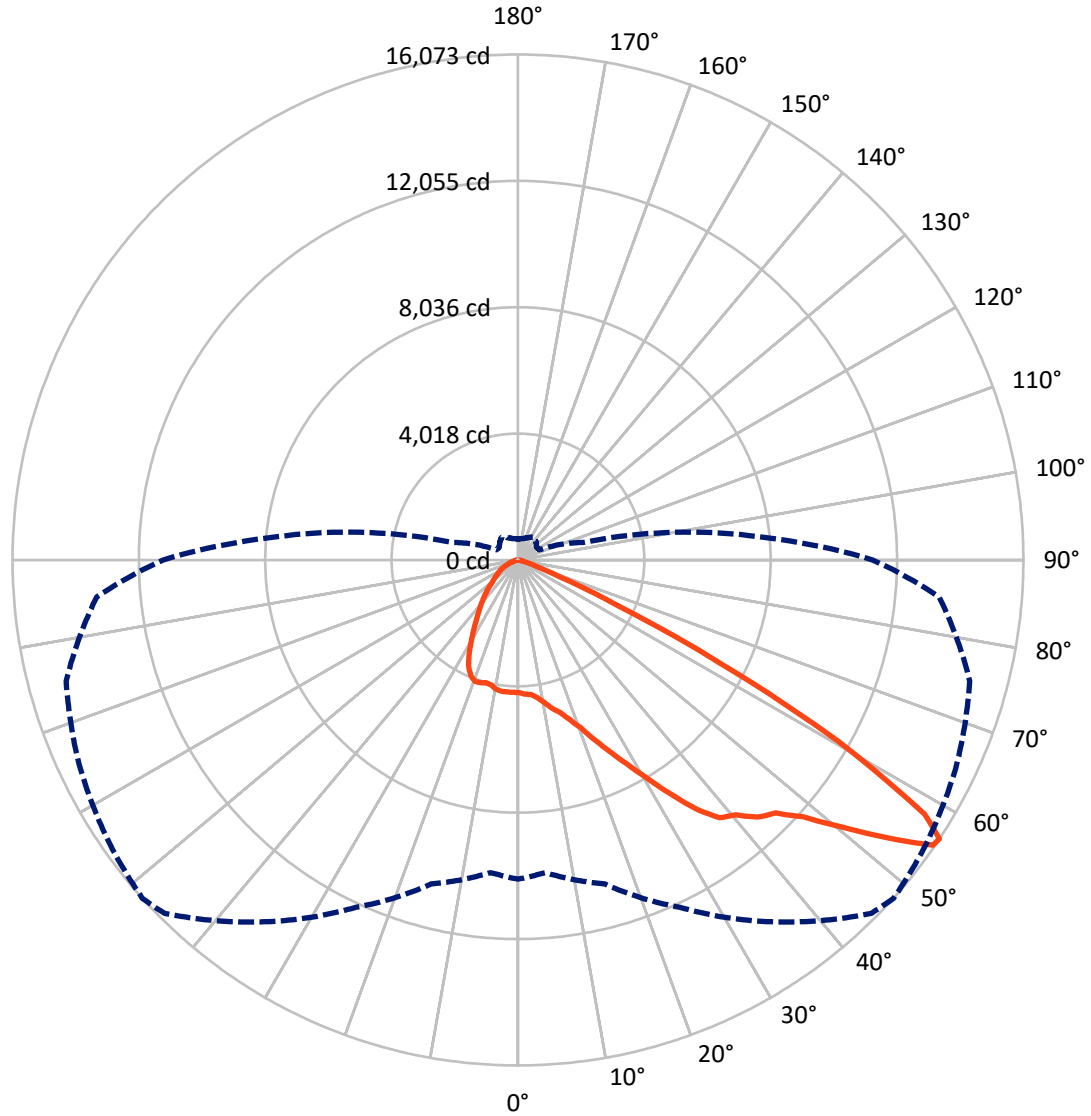
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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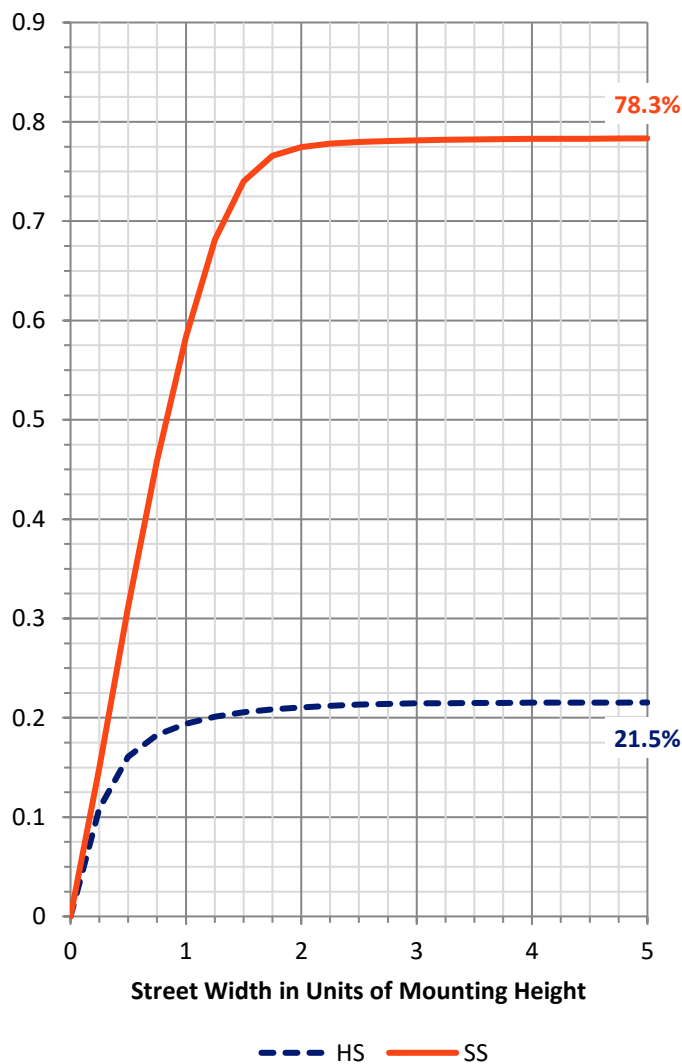
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4795.9	0.0	4795.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17256.1	0.0	17256.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	22052.0	0.0	22052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.3	1.9
10°-20°	1311.2	5.9
20°-30°	2378.3	10.8
30°-40°	3735.8	16.9
40°-50°	5449.9	24.7
50°-60°	6566.0	29.8
60°-70°	1922.5	8.7
70°-80°	243.9	1.1
80°-90°	34.2	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°	22052.0	100.0
0°-180°	22052.0	100.0

Coefficient of Utilization

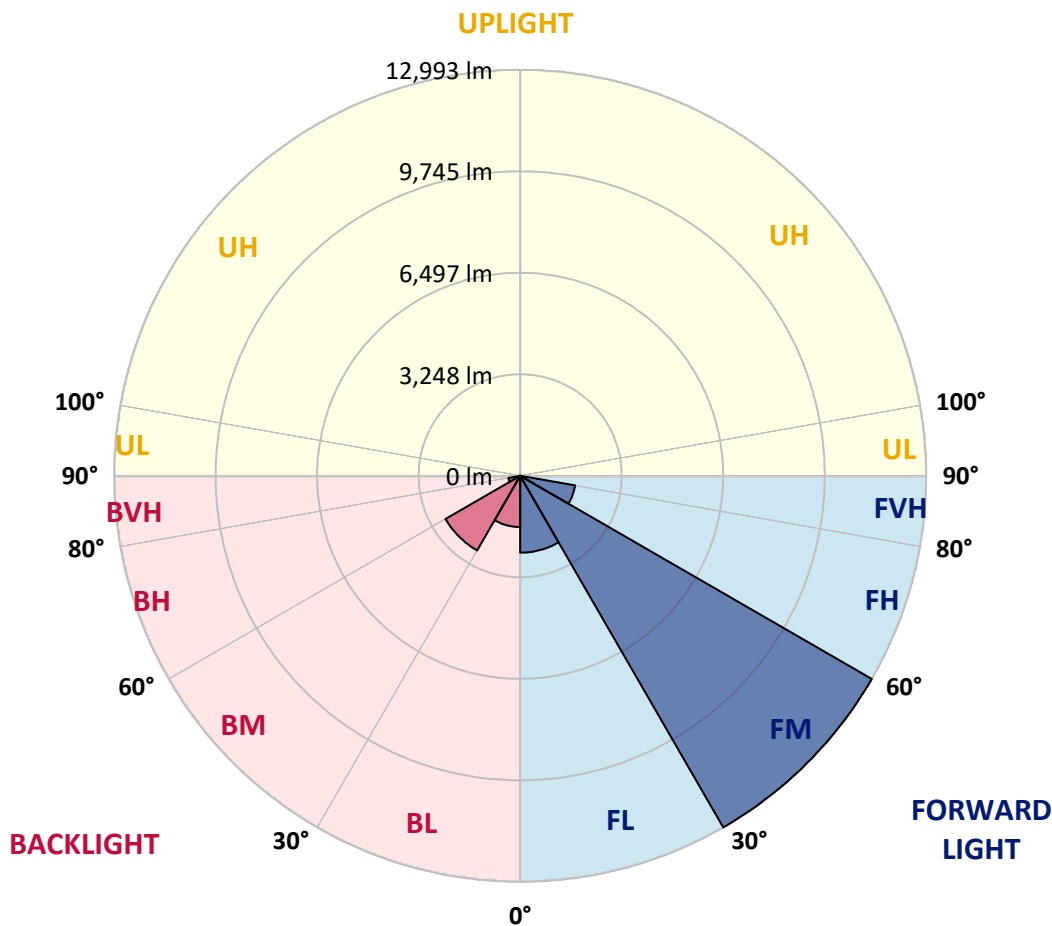


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.6	11.2			
FM (30°-60°)	12993.1	58.9			
FH (60°-80°)	1785.3	8.1			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1639.2	7.4	B3/2500		
BM (30°-60°)	2758.6	12.5	B3/5000		
BH (60°-80°)	381.1	1.7	B1/500		G1/500
BVH (80°-90°)	17.0	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°	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9
2.5°	4288.2	4268.2	4268.2	4236.0	4272.2	4256.1	4268.2	4228.0	4268.2	4207.9	4256.1
5°	4308.3	4312.3	4296.3	4316.3	4316.3	4340.4	4300.3	4336.4	4356.5	4312.3	4292.2
7.5°	4412.7	4420.7	4416.7	4400.7	4432.8	4428.8	4424.7	4396.6	4404.7	4388.6	4364.5
10°	4617.5	4613.5	4633.5	4593.4	4569.3	4597.4	4605.4	4561.3	4529.1	4517.1	4440.8
12.5°	4914.6	4866.4	4838.3	4798.2	4810.2	4770.1	4842.3	4766.0	4750.0	4677.7	4601.4
15°	5155.5	5147.5	5151.5	5087.3	5015.0	5031.0	5031.0	4990.9	4966.8	4878.5	4770.1
17.5°	5649.4	5480.7	5516.9	5436.6	5376.3	5372.3	5336.2	5344.2	5280.0	5095.3	4930.7
20°	6034.8	5962.6	5906.4	5769.8	5677.5	5705.6	5689.5	5649.4	5629.3	5388.4	5155.5
22.5°	6380.1	6404.2	6311.9	6275.8	6147.3	6159.3	6191.4	6155.3	6002.7	5753.8	5408.5
25°	6866.0	6837.9	6713.4	6669.2	6548.8	6593.0	6717.4	6689.3	6593.0	6143.3	5605.2
27.5°	7440.2	7343.8	7367.9	7167.1	7050.7	7175.2	7323.7	7464.3	7191.2	6601.0	5838.1
30°	7845.7	7745.3	7737.3	7729.3	7701.1	7845.7	8018.3	8146.8	7926.0	7058.7	6223.6
32.5°	8046.5	8070.5	8138.8	8114.7	8359.6	8656.8	8837.4	9022.1	8745.1	7805.5	6733.5
35°	8580.5	8427.9	8580.5	8596.5	8849.5	9479.9	9708.7	10150.4	10082.2	8861.5	7355.8
37.5°	8893.7	8881.6	8901.7	9054.3	9299.2	10078.1	10403.4	10744.7	10616.2	9495.9	8130.8
40°	9411.6	9443.7	9439.7	9556.2	9825.2	10527.8	10660.3	10937.4	10949.4	10375.3	9271.1
42.5°	10242.8	10114.3	10030.0	10150.4	10527.8	10917.3	11182.3	11126.1	11523.6	11443.3	10736.6
45°	10989.6	11065.9	10941.4	11142.2	11278.7	11487.5	11479.4	11599.9	12105.8	12487.3	11840.8
47.5°	11688.2	11736.4	11796.6	11933.2	12230.3	12262.4	12194.2	12142.0	12840.6	13234.1	12696.1
50°	12105.8	12150.0	12431.0	12676.0	13230.1	13302.3	13342.5	13210.0	13683.8	13728.0	13503.1
52.5°	11993.4	12041.6	12435.1	13242.1	14125.5	14788.0	14667.5	14442.7	14414.6	14587.2	14249.9
55°	10997.6	10953.5	11495.5	12752.3	14406.5	15996.5	16012.6	15775.7	15322.0	15205.6	14137.5
56°	10150.4	9977.8	10668.4	12186.1	14045.2	15892.1	16072.8	15819.9	15394.3	14872.3	13442.9
57.5°	8315.5	8480.1	9166.7	10423.5	12796.4	15141.3	15245.7	15185.5	14864.3	13988.9	11828.8
60°	4585.4	4874.4	5480.7	7018.6	9110.5	11620.0	11704.3	12194.2	12254.4	10712.5	8138.8
62.5°	1947.4	1915.2	2545.6	3677.9	5187.6	7014.5	7171.1	7673.0	7765.4	6175.4	4083.5
65°	791.0	835.2	1152.4	1851.0	2742.4	3196.1	3416.9	3581.6	3886.7	2549.7	1505.7
67.5°	522.0	518.0	678.6	1056.0	1477.6	1425.4	1425.4	1505.7	1393.3	1039.9	650.5
70°	373.4	385.5	485.8	730.8	919.5	682.6	654.5	626.4	710.7	686.6	526.0
72.5°	244.9	261.0	325.2	437.7	477.8	373.4	373.4	449.7	586.2	554.1	429.6
75°	160.6	164.6	200.8	253.0	236.9	192.7	212.8	301.1	425.6	409.6	305.2
77.5°	108.4	112.4	136.5	164.6	132.5	108.4	116.4	152.6	208.8	208.8	160.6
80°	40.2	44.2	56.2	52.2	60.2	76.3	84.3	104.4	124.5	124.5	108.4
82.5°	0.0	4.0	12.0	28.1	44.2	60.2	68.3	80.3	92.3	104.4	100.4
85°	0.0	4.0	12.0	20.1	32.1	36.1	40.2	28.1	24.1	24.1	20.1
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0	4.0	4.0
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°	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9	4211.9
2.5°	4211.9	4207.9	4207.9	4195.9	4220.0	4207.9	4216.0	4211.9	4159.7	4199.9	4171.8
5°	4256.1	4284.2	4240.0	4232.0	4199.9	4211.9	4211.9	4171.8	4207.9	4203.9	4195.9
7.5°	4368.5	4320.4	4272.2	4224.0	4216.0	4203.9	4159.7	4143.7	4171.8	4139.7	4187.9
10°	4416.7	4424.7	4352.5	4288.2	4228.0	4143.7	4083.5	4047.3	4003.2	4051.3	4079.4
12.5°	4637.6	4557.2	4432.8	4332.4	4127.6	4043.3	3983.1	3967.0	4043.3	4059.4	4031.3
15°	4713.8	4701.8	4541.2	4316.3	4103.5	4003.2	4015.2	3983.1	3991.1	3951.0	3959.0
17.5°	4870.4	4733.9	4545.2	4264.1	4099.5	4075.4	4003.2	3874.7	3802.4	3770.3	3798.4
20°	5043.1	4910.6	4637.6	4284.2	4135.7	4071.4	3834.5	3677.9	3529.4	3449.1	3453.1
22.5°	5195.7	5031.0	4597.4	4292.2	4167.8	3902.8	3617.7	3308.5	3123.8	2999.4	3003.4
25°	5380.4	5147.5	4613.5	4308.3	4083.5	3633.8	3224.2	2923.1	2702.2	2617.9	2646.0
27.5°	5484.8	5219.8	4701.8	4344.4	3862.6	3252.3	2810.6	2529.6	2401.1	2360.9	2356.9
30°	5797.9	5380.4	4810.2	4272.2	3493.2	2842.8	2433.2	2260.6	2136.1	2099.9	2108.0
32.5°	6263.7	5673.5	4950.7	4083.5	3115.8	2477.4	2188.3	2059.8	1943.4	1875.1	1867.1
35°	6653.2	6175.4	5099.3	3790.3	2678.1	2196.3	2015.6	1855.0	1678.4	1602.1	1582.0
37.5°	7396.0	6741.5	5067.2	3348.7	2260.6	1987.5	1830.9	1634.2	1481.6	1377.2	1365.2
40°	8383.7	7404.0	4910.6	2810.6	1951.4	1802.8	1634.2	1445.5	1256.8	1168.4	1160.4
42.5°	9584.3	8215.1	4625.5	2264.6	1642.2	1618.1	1465.5	1248.7	1080.1	1015.8	1019.9
45°	10560.0	8909.7	4336.4	1818.9	1413.3	1437.4	1304.9	1100.2	983.7	931.5	931.5
47.5°	11427.3	9379.5	4023.2	1501.7	1200.5	1256.8	1140.3	1019.9	919.5	879.3	871.3
50°	12262.4	9857.3	3710.0	1216.6	1023.9	1080.1	1068.0	971.7	891.4	843.2	847.2
52.5°	12784.4	9933.6	3312.5	995.8	895.4	959.6	999.8	911.4	823.1	795.0	787.0
55°	12146.0	8949.9	2569.7	819.1	758.9	843.2	919.5	819.1	750.8	702.7	698.6
56°	11286.7	8002.3	2148.1	754.9	718.7	811.1	891.4	783.0	706.7	678.6	658.5
57.5°	9556.2	6548.8	1586.0	670.5	666.5	754.9	847.2	746.8	658.5	634.4	634.4
60°	5958.6	3686.0	959.6	562.1	578.2	670.5	762.9	666.5	586.2	586.2	598.3
62.5°	2714.3	1533.8	582.2	477.8	497.9	578.2	678.6	602.3	558.1	602.3	610.3
65°	923.5	662.5	421.6	381.4	393.5	477.8	582.2	610.3	606.3	634.4	650.5
67.5°	518.0	425.6	353.3	317.2	309.2	353.3	477.8	610.3	586.2	574.2	582.2
70°	437.7	361.4	313.2	281.1	269.0	285.1	369.4	461.7	413.6	401.5	393.5
72.5°	353.3	301.1	273.0	253.0	216.8	184.7	168.6	176.7	196.7	208.8	228.9
75°	248.9	228.9	228.9	204.8	156.6	116.4	92.3	76.3	52.2	36.1	40.2
77.5°	140.5	140.5	144.5	124.5	100.4	76.3	56.2	40.2	20.1	8.0	4.0
80°	96.4	104.4	112.4	100.4	84.3	68.3	48.2	28.1	12.0	0.0	0.0
82.5°	96.4	108.4	116.4	100.4	84.3	64.2	48.2	28.1	12.0	4.0	0.0
85°	20.1	24.1	28.1	32.1	48.2	48.2	36.1	24.1	12.0	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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)