

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: P529117

Luminaire Tested: **GALN-SA4B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11989 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

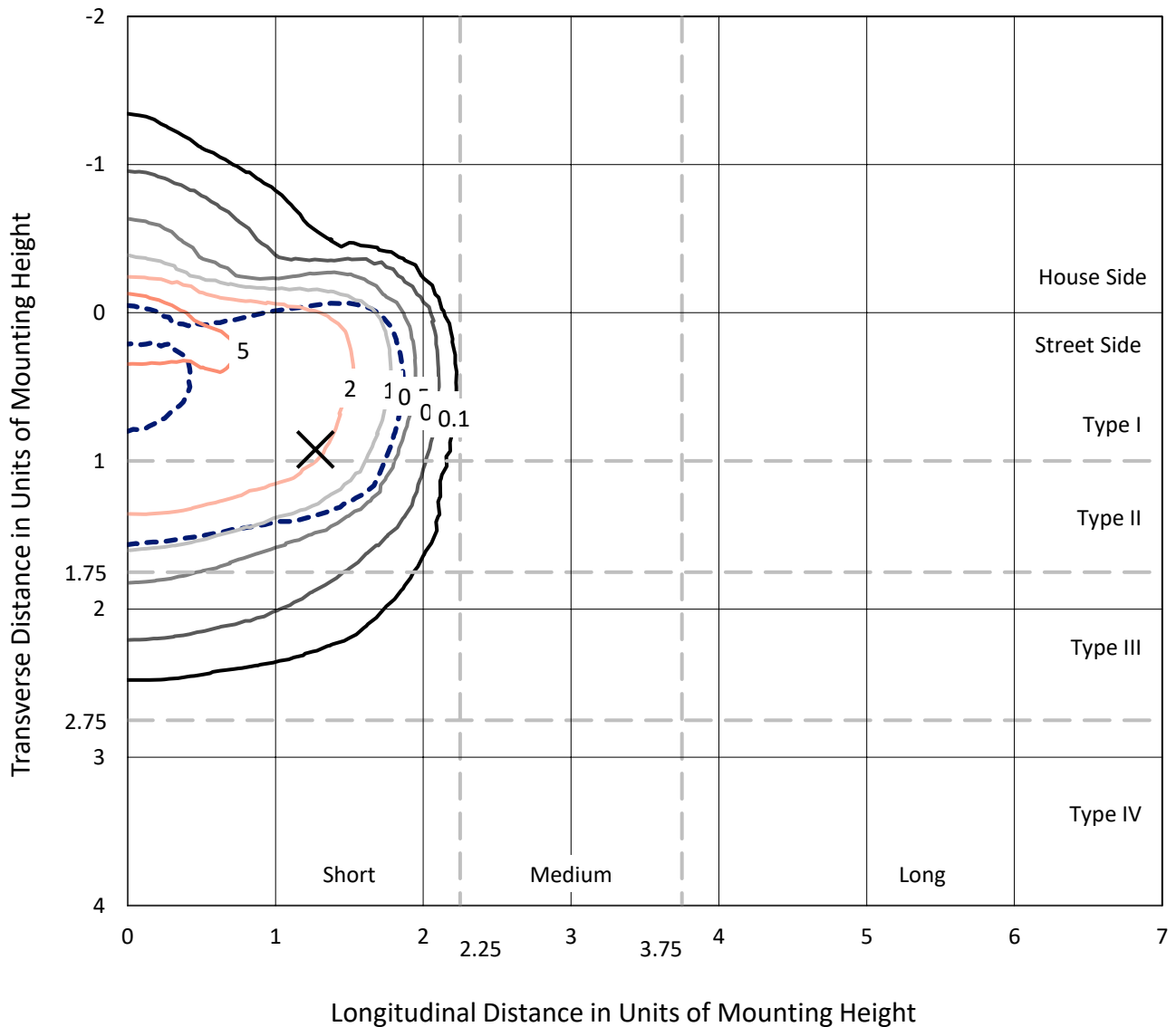
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

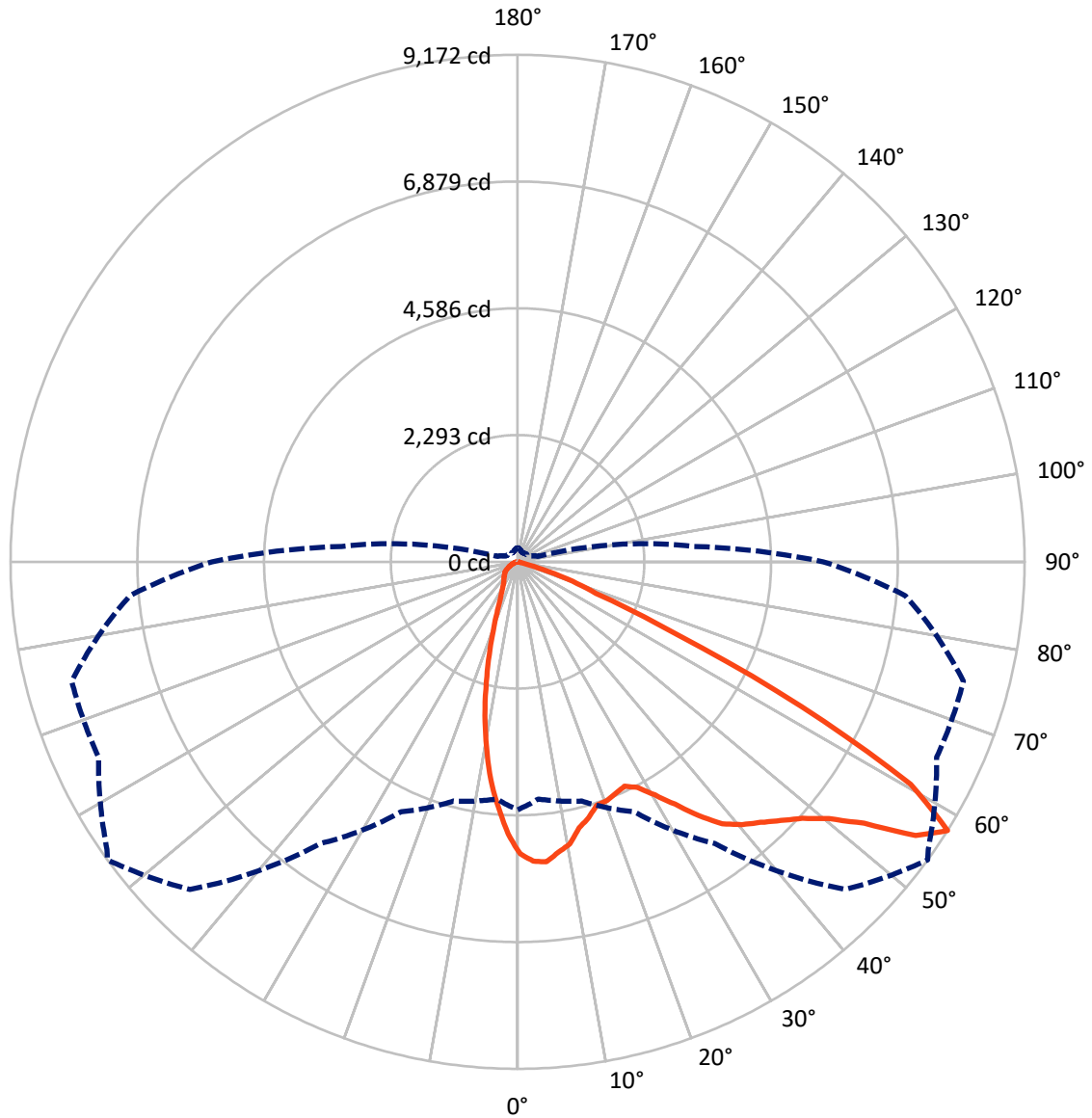
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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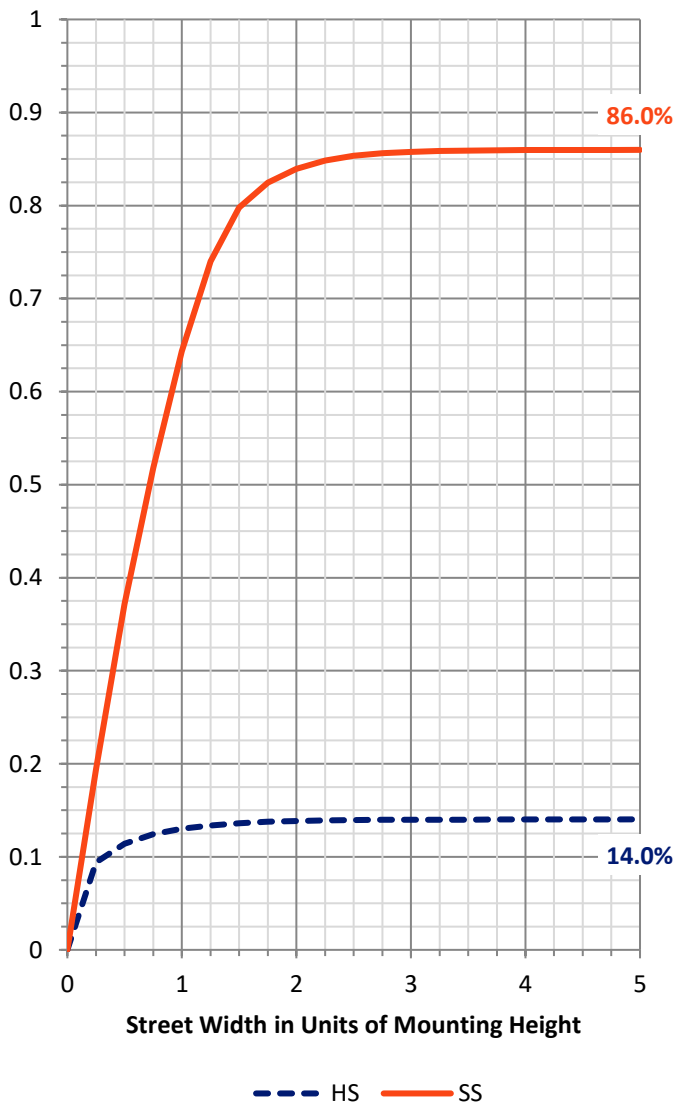
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.3	0.0	1694.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10294.8	0.0	10294.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	11989.0	0.0	11989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	3.7
10°-20°	943.6	7.9
20°-30°	1250.4	10.4
30°-40°	1817.2	15.2
40°-50°	2694.6	22.5
50°-60°	3369.5	28.1
60°-70°	1329.1	11.1
70°-80°	132.3	1.1
80°-90°	10.3	0.1
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°	11989.0	100.0
0°-180°	11989.0	100.0

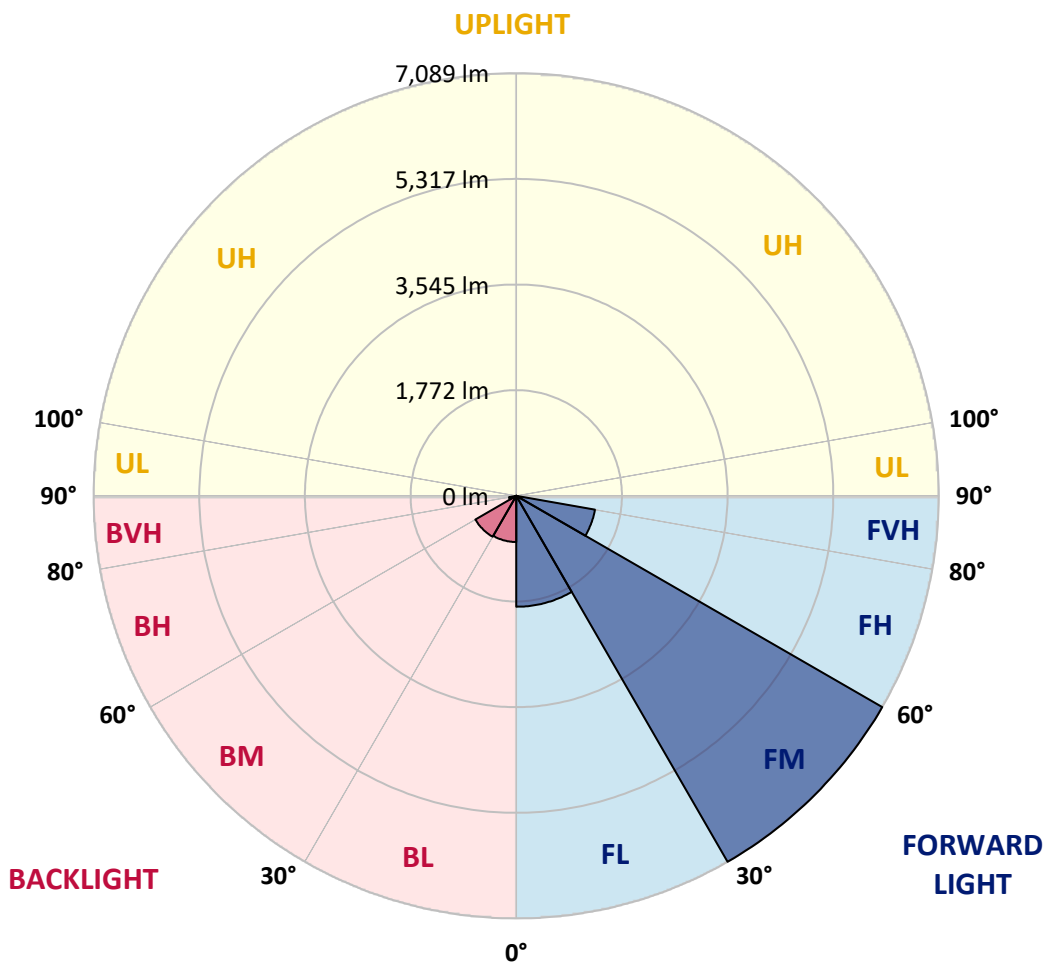


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.0	15.5			
FM (30°-60°)	7089.1	59.1			
FH (60°-80°)	1340.0	11.2			G1/1800
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	774.9	6.5	B2/1000		
BM (30°-60°)	792.3	6.6	B1/1000		
BH (60°-80°)	121.5	1.0	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3
2.5°	5589.0	5531.0	5535.5	5515.4	5488.6	5508.7	5421.8	5441.8	5439.6	5321.4	5243.4
5°	5448.5	5510.9	5446.3	5499.8	5448.5	5504.3	5450.7	5410.6	5346.0	5259.0	5114.1
7.5°	5210.0	5149.8	5167.6	5234.5	5245.6	5370.5	5303.6	5354.9	5328.1	5156.5	4958.1
10°	4730.7	4717.3	4806.5	4895.6	5004.9	5138.6	5189.9	5160.9	5140.9	5076.2	4810.9
12.5°	4362.8	4400.7	4398.5	4545.6	4730.7	4806.5	4940.2	4935.8	5047.2	4926.9	4672.7
15°	4012.8	4032.9	4126.5	4217.9	4423.0	4639.3	4804.2	4826.5	4960.3	4875.6	4565.7
17.5°	3798.8	3769.8	3843.4	3952.6	4162.2	4445.3	4628.1	4681.6	4864.4	4846.6	4443.1
20°	3587.0	3587.0	3647.2	3776.5	3968.2	4287.0	4612.5	4596.9	4864.4	4813.2	4311.6
22.5°	3515.7	3551.3	3567.0	3665.0	3892.4	4166.6	4545.6	4574.6	4902.3	4797.5	4253.6
25°	3613.8	3567.0	3571.4	3649.4	3863.5	4108.7	4496.6	4561.2	4971.4	4875.6	4206.8
27.5°	3629.4	3676.2	3689.6	3743.1	3885.7	4126.5	4619.2	4750.7	5143.1	5058.4	4220.1
30°	3765.4	3812.2	3809.9	3901.4	3999.4	4271.4	4893.4	4920.2	5497.6	5288.0	4302.6
32.5°	3930.3	3979.4	3995.0	4102.0	4180.0	4536.7	5227.8	5296.9	5838.7	5649.2	4518.9
35°	4135.4	4117.6	4188.9	4295.9	4463.1	4924.6	5635.8	5751.7	6206.5	6117.3	4741.8
37.5°	4391.8	4369.5	4438.6	4612.5	4839.9	5383.9	6012.5	6088.3	6474.0	6552.0	5154.2
40°	4572.4	4581.3	4790.9	5024.9	5265.7	5820.8	6251.1	6324.6	6661.3	6957.8	5466.4
42.5°	4873.3	4929.1	5181.0	5466.4	5718.3	6148.5	6445.0	6516.4	6748.2	7283.3	5887.7
45°	5310.3	5285.8	5564.4	5883.2	6161.9	6489.6	6674.7	6650.1	6799.5	7606.5	6153.0
47.5°	5872.1	5876.6	6061.6	6333.6	6623.4	6786.1	6931.0	6844.1	6906.5	7947.6	6507.5
50°	6255.5	6289.0	6438.3	6717.0	6861.9	7111.6	7296.6	7243.1	7223.1	8152.7	6730.4
52.5°	6353.6	6454.0	6534.2	6882.0	7220.8	7615.4	7851.7	7965.4	7608.8	8221.8	7013.5
55°	5613.5	5702.7	5985.8	6462.9	7356.8	8413.5	8739.0	8741.3	8112.6	8529.5	7211.9
57.5°	4487.7	4307.1	4481.0	4987.0	6219.9	8380.1	9171.5	9066.7	8364.5	8348.9	7040.3
60°	3103.2	3058.7	3069.8	3270.4	4304.9	6665.7	8172.8	8308.8	7702.4	7236.5	5573.4
62.5°	2459.0	2421.1	2372.0	2349.7	2673.0	4153.3	5765.1	5956.8	5386.1	4692.8	3303.9
65°	1926.2	1903.9	1910.5	1999.7	1997.5	2356.4	3152.3	3074.3	2461.2	1819.1	1038.9
67.5°	1299.7	1333.1	1359.9	1629.7	1767.9	1640.8	1522.6	1478.1	800.3	336.6	229.6
70°	731.2	735.7	764.7	1018.8	1342.1	1273.0	1050.0	1050.0	399.1	122.6	131.5
72.5°	399.1	385.7	358.9	439.2	597.5	606.4	468.2	408.0	118.2	80.3	73.6
75°	194.0	191.7	165.0	136.0	129.3	107.0	82.5	75.8	53.5	51.3	44.6
77.5°	40.1	37.9	20.1	20.1	22.3	24.5	31.2	31.2	37.9	37.9	31.2
80°	0.0	0.0	2.2	8.9	15.6	22.3	26.8	26.8	31.2	31.2	24.5
82.5°	0.0	0.0	2.2	6.7	13.4	20.1	24.5	26.8	31.2	33.4	26.8
85°	0.0	0.0	0.0	4.5	11.1	15.6	13.4	13.4	11.1	8.9	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3	5281.3
2.5°	5203.3	5198.8	5096.3	5038.3	4933.5	4842.1	4768.6	4715.1	4715.1	4681.6	4650.4
5°	5056.2	5018.3	4799.8	4659.3	4460.9	4313.8	4213.5	4135.4	4012.8	4046.3	3914.7
7.5°	4873.3	4777.5	4487.7	4273.7	3999.4	3789.9	3575.9	3386.4	3203.6	3121.1	3165.7
10°	4677.2	4510.0	4119.8	3781.0	3439.9	3056.4	2806.7	2503.6	2316.3	2305.1	2256.1
12.5°	4469.8	4280.3	3805.5	3337.3	2889.2	2427.8	2046.5	1763.4	1636.3	1495.9	1522.6
15°	4313.8	4032.9	3455.5	2891.5	2296.2	1830.3	1446.8	1228.4	1108.0	1074.5	1063.4
17.5°	4144.4	3843.4	3098.8	2416.6	1801.3	1317.5	1041.1	936.3	889.5	889.5	882.8
20°	3968.2	3629.4	2744.3	1975.2	1351.0	983.1	833.8	800.3	798.1	795.9	795.9
22.5°	3852.3	3384.1	2423.3	1569.5	1018.8	787.0	724.5	711.2	720.1	746.8	746.8
25°	3729.7	3147.8	2068.8	1210.5	789.2	675.5	639.8	648.7	671.0	695.6	686.6
27.5°	3604.8	2994.0	1734.4	949.7	646.5	590.8	577.4	597.5	622.0	644.3	637.6
30°	3575.9	2829.0	1417.9	720.1	555.1	515.0	523.9	541.7	566.3	575.2	584.1
32.5°	3620.5	2699.7	1161.5	590.8	483.8	472.6	472.6	481.5	497.1	517.2	510.5
35°	3747.5	2626.2	918.5	512.7	443.6	432.5	430.3	439.2	448.1	454.8	448.1
37.5°	3941.5	2568.2	751.3	454.8	416.9	399.1	394.6	392.4	401.3	403.5	408.0
40°	4188.9	2599.4	637.6	419.1	390.1	370.1	356.7	356.7	356.7	363.4	365.6
42.5°	4456.5	2641.8	550.6	399.1	365.6	341.1	327.7	323.3	327.7	336.6	334.4
45°	4737.4	2724.3	494.9	367.8	343.3	312.1	294.3	289.8	301.0	318.8	316.6
47.5°	5000.4	2842.4	452.6	347.8	321.0	292.0	269.8	265.3	285.4	309.9	312.1
50°	5263.5	3047.5	437.0	332.2	305.4	272.0	251.9	247.5	269.8	301.0	307.6
52.5°	5566.7	3268.2	425.8	312.1	287.6	256.4	234.1	229.6	254.1	294.3	296.5
55°	5765.1	3455.5	416.9	276.4	254.1	231.9	214.0	211.8	238.5	274.2	283.1
57.5°	5533.2	3194.6	385.7	240.8	216.2	205.1	189.5	189.5	211.8	245.2	251.9
60°	4195.6	2102.3	274.2	194.0	182.8	176.1	169.4	169.4	187.3	211.8	214.0
62.5°	2456.7	1132.5	176.1	156.1	156.1	149.4	138.2	138.2	156.1	169.4	171.7
65°	729.0	363.4	142.7	133.8	131.5	120.4	109.2	107.0	120.4	127.1	124.8
67.5°	209.6	167.2	118.2	111.5	109.2	91.4	84.7	82.5	84.7	80.3	78.0
70°	124.8	113.7	91.4	93.6	82.5	66.9	60.2	58.0	53.5	46.8	42.4
72.5°	69.1	69.1	66.9	71.3	58.0	44.6	37.9	31.2	24.5	20.1	17.8
75°	42.4	44.6	46.8	49.0	37.9	29.0	24.5	15.6	8.9	4.5	4.5
77.5°	29.0	31.2	33.4	35.7	31.2	26.8	20.1	11.1	2.2	0.0	0.0
80°	22.3	24.5	29.0	31.2	33.4	35.7	26.8	11.1	2.2	0.0	0.0
82.5°	24.5	26.8	33.4	31.2	31.2	31.2	24.5	11.1	2.2	0.0	0.0
85°	4.5	6.7	11.1	11.1	15.6	20.1	15.6	4.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)