

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: P648157

Luminaire Tested: **GALN-SA9A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26701.9 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

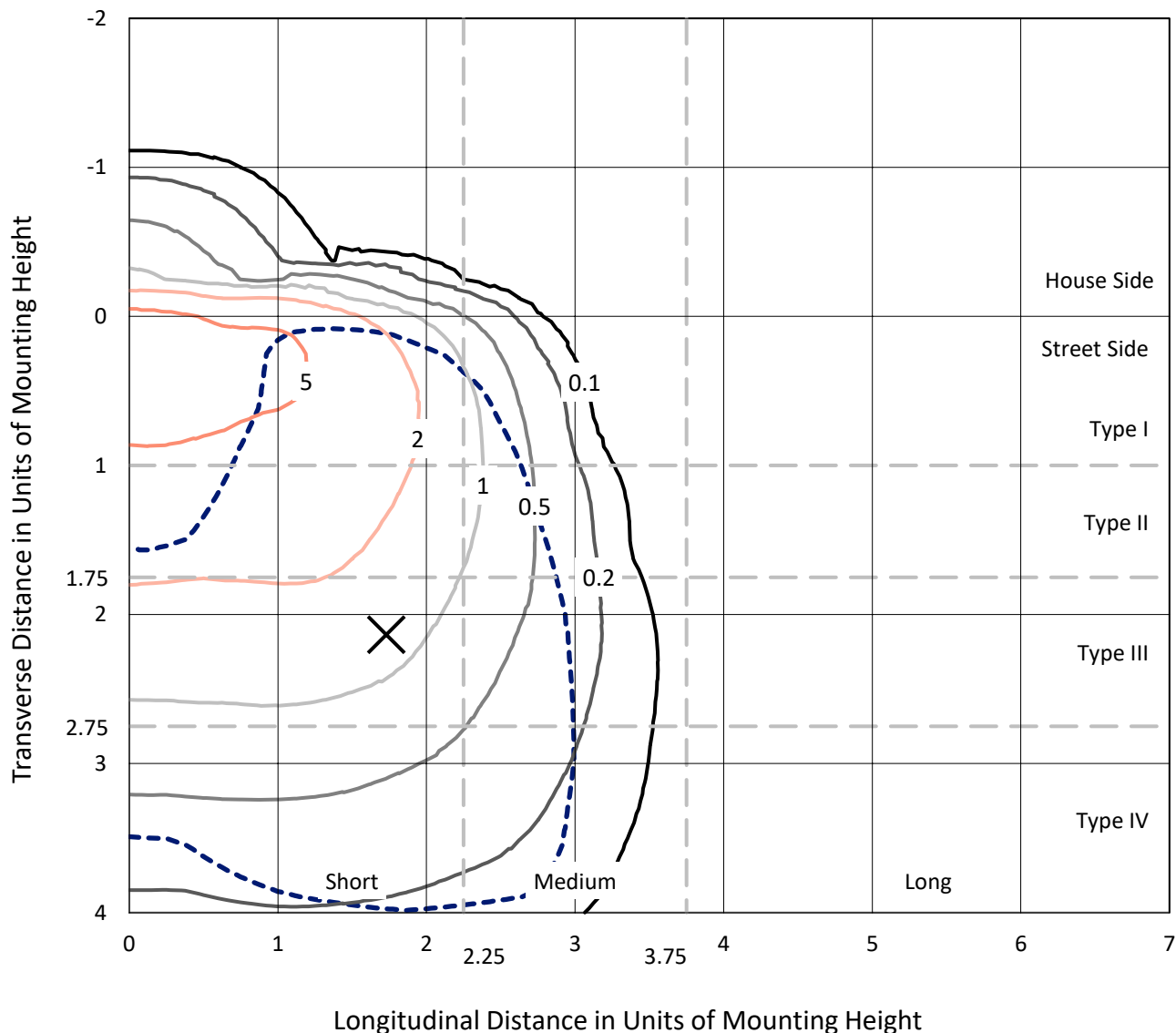
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

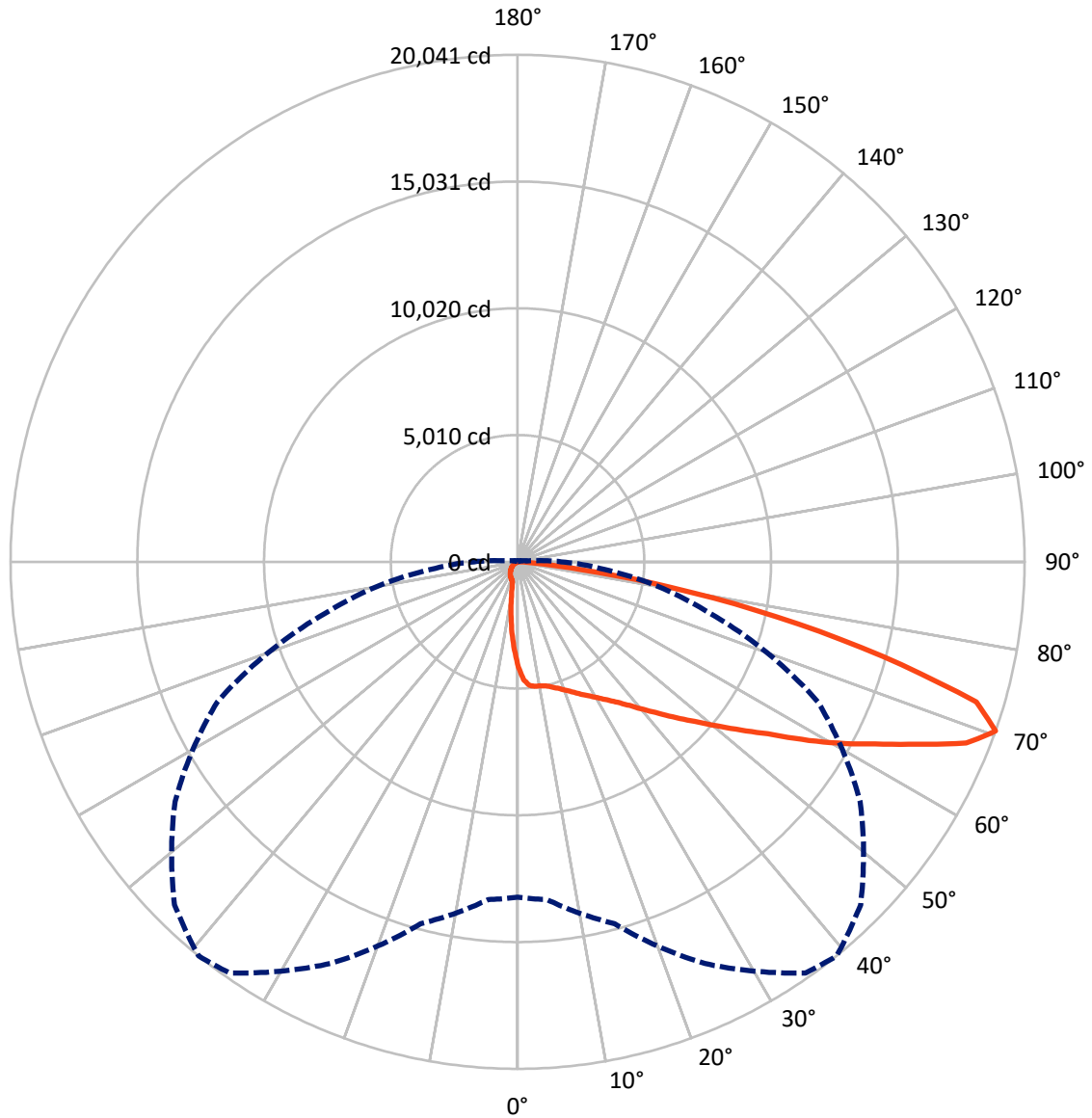
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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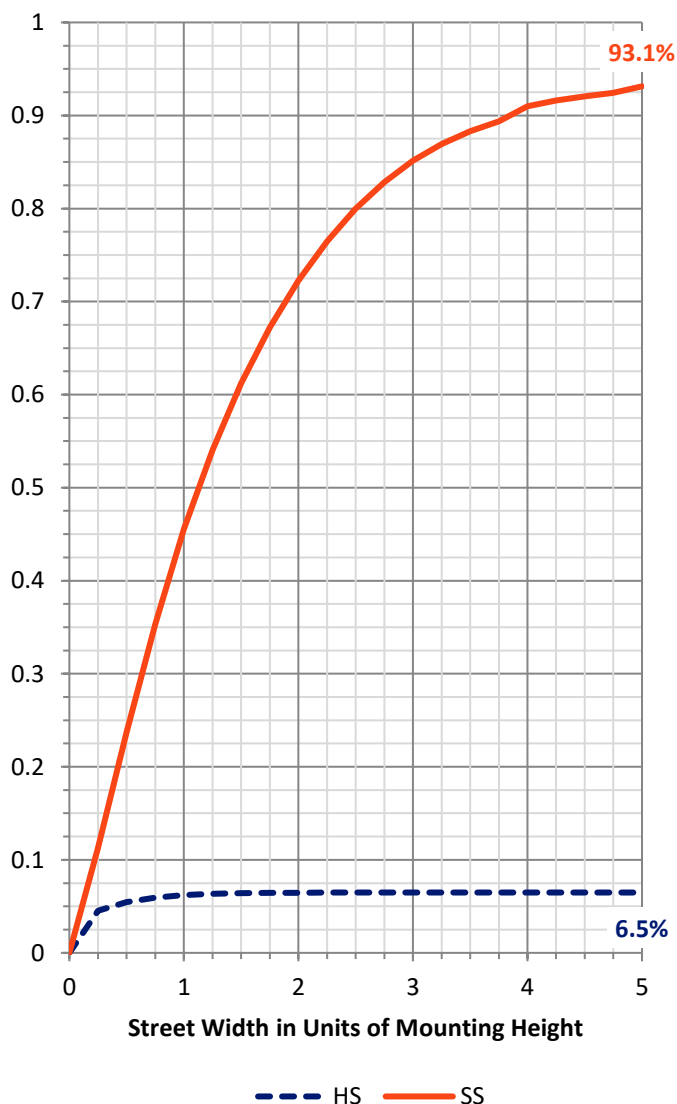
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.1	0.0	1741.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	24960.8	0.0	24960.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	26701.9	0.0	26701.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.3
10°-20°	923.5	3.5
20°-30°	1547.1	5.8
30°-40°	2399.4	9.0
40°-50°	3802.3	14.2
50°-60°	5573.6	20.9
60°-70°	7144.0	26.8
70°-80°	4489.0	16.8
80°-90°	467.7	1.8
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°	26701.9	100.0
0°-180°	26701.9	100.0

Coefficient of Utilization



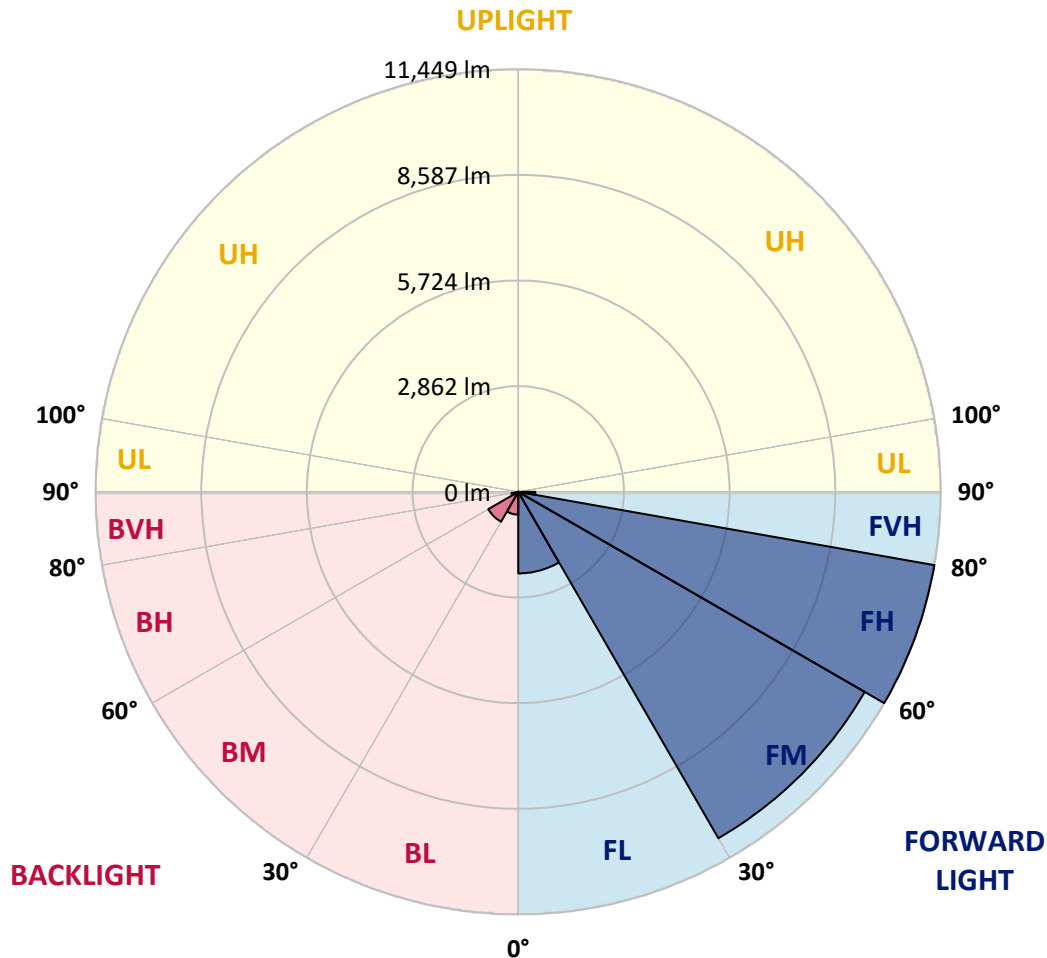
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.4	8.3			
FM (30°-60°)	10838.2	40.6			
FH (60°-80°)	11448.9	42.9			G4/12000
FVH (80°-90°)	464.2	1.7			G3/500
BL (0°-30°)	616.5	2.3	B2/1000		
BM (30°-60°)	937.0	3.5	B1/1000		
BH (60°-80°)	184.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4
2.5°	4814.1	4798.0	4776.5	4751.3	4679.6	4667.0	4623.9	4532.5	4423.0	4333.3	4209.5
5°	5042.1	5051.0	5034.8	4990.0	4938.0	4907.5	4853.7	4711.9	4570.1	4388.9	4186.2
7.5°	5094.0	5112.1	5092.2	5049.2	4999.0	4966.6	4923.6	4801.6	4636.5	4430.1	4152.0
10°	5088.7	5110.2	5097.6	5058.2	5016.9	4986.4	4939.8	4842.9	4710.1	4493.0	4162.8
12.5°	5079.7	5108.4	5106.6	5086.9	5052.8	5029.4	5000.8	4914.7	4790.9	4584.5	4222.0
15°	5054.6	5090.5	5122.8	5138.9	5140.7	5140.7	5104.8	5013.3	4894.9	4704.7	4299.2
17.5°	5065.4	5106.6	5187.4	5234.0	5266.3	5262.7	5225.0	5126.4	4995.4	4828.5	4379.9
20°	5131.8	5187.4	5300.4	5393.7	5426.0	5415.2	5365.0	5250.2	5101.2	4934.4	4458.9
22.5°	5295.0	5345.3	5487.0	5596.5	5619.8	5591.1	5519.3	5363.2	5228.6	5049.2	4554.0
25°	5539.1	5598.3	5729.3	5811.8	5811.8	5795.6	5695.2	5512.2	5372.2	5208.9	4677.8
27.5°	5835.2	5885.3	6014.5	6088.1	6045.1	5998.4	5897.9	5677.2	5542.6	5409.9	4826.7
30°	6134.8	6167.1	6303.5	6335.7	6290.9	6231.7	6124.0	5903.3	5784.9	5682.6	5042.1
32.5°	6418.3	6488.3	6601.3	6594.1	6533.1	6504.4	6405.7	6170.7	6104.3	6093.5	5343.5
35°	6701.8	6755.6	6856.1	6881.2	6827.4	6822.0	6750.2	6576.2	6578.0	6648.0	5813.6
37.5°	6945.8	6994.2	7112.7	7168.3	7179.1	7205.9	7177.3	7062.4	7225.7	7417.8	6436.2
40°	7150.4	7218.6	7369.3	7466.1	7577.4	7676.1	7681.5	7706.6	8035.0	8365.1	7249.0
42.5°	7310.1	7405.1	7624.1	7803.5	8058.2	8183.9	8284.4	8422.5	8975.2	9468.6	8207.2
45°	7518.2	7627.7	7900.4	8182.1	8580.4	8786.7	8926.7	9296.3	10080.5	10753.3	9190.5
47.5°	7862.7	7920.1	8198.2	8609.2	9133.1	9427.3	9700.1	10259.9	11266.5	11869.4	10008.7
50°	8305.9	8343.6	8553.5	9124.1	9802.4	10190.0	10686.9	11345.5	12497.5	12795.3	10471.6
52.5°	8795.8	8808.3	8966.2	9691.1	10552.4	11040.5	11596.7	12409.5	13500.5	13455.6	10778.5
55°	9364.5	9346.6	9481.2	10306.6	11440.6	11998.6	12646.4	13498.7	14370.7	13923.9	10954.3
57.5°	10015.9	9967.4	10098.4	11123.0	12578.2	13245.6	13904.2	14438.9	15045.3	14316.8	11038.7
60°	10697.7	10600.8	10756.9	12039.9	13918.5	14551.9	15099.2	15242.7	15755.9	14629.1	10893.3
62.5°	11241.4	11243.2	11533.9	13016.0	15296.5	15851.0	16141.7	16270.9	16367.8	14560.9	10128.9
65°	12090.1	12118.8	12583.6	14370.7	16891.7	17372.6	17571.8	17151.8	16394.7	13714.0	8980.5
67.5°	12965.8	13057.2	13907.7	16236.8	18734.4	19122.0	18865.4	17322.4	15662.6	11781.5	6809.4
70°	13251.0	13401.7	14803.2	17521.5	19839.8	20040.7	19172.3	16527.5	13093.2	7877.1	3427.1
72.5°	12142.1	12386.2	14288.2	17053.2	19134.6	18960.6	17153.7	13861.1	8323.8	2991.1	1046.1
75°	8562.5	8670.2	11874.8	14146.4	15389.9	14896.4	13048.3	8935.7	3423.6	839.8	358.8
77.5°	4421.2	4369.1	7062.4	9386.1	10975.9	10464.5	8544.6	4625.7	1297.3	349.9	222.5
80°	2286.0	2323.6	3055.7	4918.3	6700.0	6165.3	4555.8	2144.2	690.8	193.8	170.5
82.5°	1281.1	1202.2	1756.7	2147.8	3132.9	2456.4	1747.7	1518.0	301.5	116.7	161.5
85°	233.3	244.1	963.6	1161.0	1087.4	690.8	563.4	1013.8	87.9	64.6	113.1
87.5°	3.6	3.6	186.6	333.7	211.7	96.9	177.7	145.3	17.9	25.1	19.7
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°	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4	4166.4
2.5°	4146.7	4078.5	3951.1	3825.5	3665.8	3534.8	3446.9	3355.4	3262.1	3269.3	3290.8
5°	4074.9	3956.5	3705.2	3439.7	3184.9	2955.3	2729.1	2526.4	2443.9	2368.5	2372.1
7.5°	4003.1	3836.2	3468.5	3052.1	2666.3	2275.2	1991.7	1758.5	1634.6	1541.3	1514.4
10°	3970.8	3750.1	3251.3	2679.0	2131.6	1704.6	1340.3	1150.1	1003.0	956.4	969.0
12.5°	3985.2	3707.0	3055.7	2341.6	1690.3	1187.8	933.0	836.2	803.8	798.5	794.9
15°	4012.1	3676.6	2863.7	1968.4	1241.7	882.8	784.1	766.2	762.6	759.0	760.8
17.5°	4048.0	3649.6	2659.1	1618.5	952.8	771.6	742.8	733.9	732.1	732.1	732.1
20°	4083.9	3619.1	2431.3	1306.3	794.9	728.5	710.6	705.2	703.4	703.4	701.6
22.5°	4125.2	3592.2	2199.8	1026.4	732.1	698.0	681.8	678.2	676.4	674.6	674.6
25°	4184.4	3558.1	1954.0	839.8	692.6	669.3	653.1	649.6	647.8	640.6	642.4
27.5°	4263.3	3533.0	1701.0	724.9	656.7	633.4	622.6	617.2	613.6	608.3	610.0
30°	4370.9	3511.4	1431.9	662.1	615.4	595.7	585.0	581.4	577.8	572.4	572.4
32.5°	4557.5	3520.4	1148.3	611.8	577.8	554.4	543.7	540.1	536.5	531.1	531.1
35°	4837.5	3572.5	918.7	568.8	532.9	509.6	498.8	498.8	493.4	486.2	484.4
37.5°	5295.0	3705.2	737.4	527.5	489.8	468.3	455.8	452.2	446.8	436.1	434.3
40°	5835.2	3911.6	620.8	486.2	450.4	428.8	418.0	407.3	393.0	382.2	380.4
42.5°	6513.4	4123.4	538.3	445.0	412.7	393.0	380.4	362.5	340.9	326.6	324.8
45°	7220.4	4317.1	482.6	407.3	376.8	360.6	346.3	317.6	290.6	272.7	270.9
47.5°	7747.9	4353.0	437.8	371.5	346.3	330.2	310.4	274.5	238.7	222.5	217.1
50°	7997.2	4178.9	391.2	335.5	315.8	297.9	272.7	231.5	192.0	172.3	168.7
52.5°	8085.2	3877.5	353.4	303.3	285.3	263.8	233.3	186.6	150.7	131.0	129.2
55°	8049.3	3497.1	319.4	272.7	249.4	224.3	193.8	148.9	111.3	95.1	91.5
57.5°	7860.9	3012.7	285.3	242.3	213.5	188.4	154.3	111.3	75.3	61.0	59.2
60°	7353.2	2352.4	251.2	208.1	181.3	154.3	122.0	78.9	46.7	34.1	34.1
62.5°	6495.5	1745.9	218.9	174.1	152.5	123.8	86.1	50.3	25.1	17.9	16.1
65°	5427.8	1288.3	183.0	147.1	127.4	96.9	61.0	30.5	12.5	5.4	3.6
67.5°	3787.8	794.9	152.5	120.2	104.1	70.0	37.7	12.5	5.4	0.0	0.0
70°	1720.7	378.6	116.7	91.5	78.9	50.3	19.7	7.2	3.6	0.0	0.0
72.5°	534.7	199.2	82.5	66.4	53.8	32.3	10.7	5.4	3.6	0.0	0.0
75°	247.6	127.4	52.1	35.9	30.5	16.1	7.2	3.6	1.8	0.0	0.0
77.5°	184.8	98.7	30.5	19.7	16.1	10.7	5.4	3.6	1.8	0.0	0.0
80°	161.5	50.3	17.9	12.5	9.0	7.2	3.6	1.8	0.0	0.0	0.0
82.5°	145.3	25.1	10.7	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
85°	78.9	14.3	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.3	7.2	5.4	3.6	3.6	1.8	1.8	1.8	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)