

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: P459212

Luminaire Tested: **GALN-SA7A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24311 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

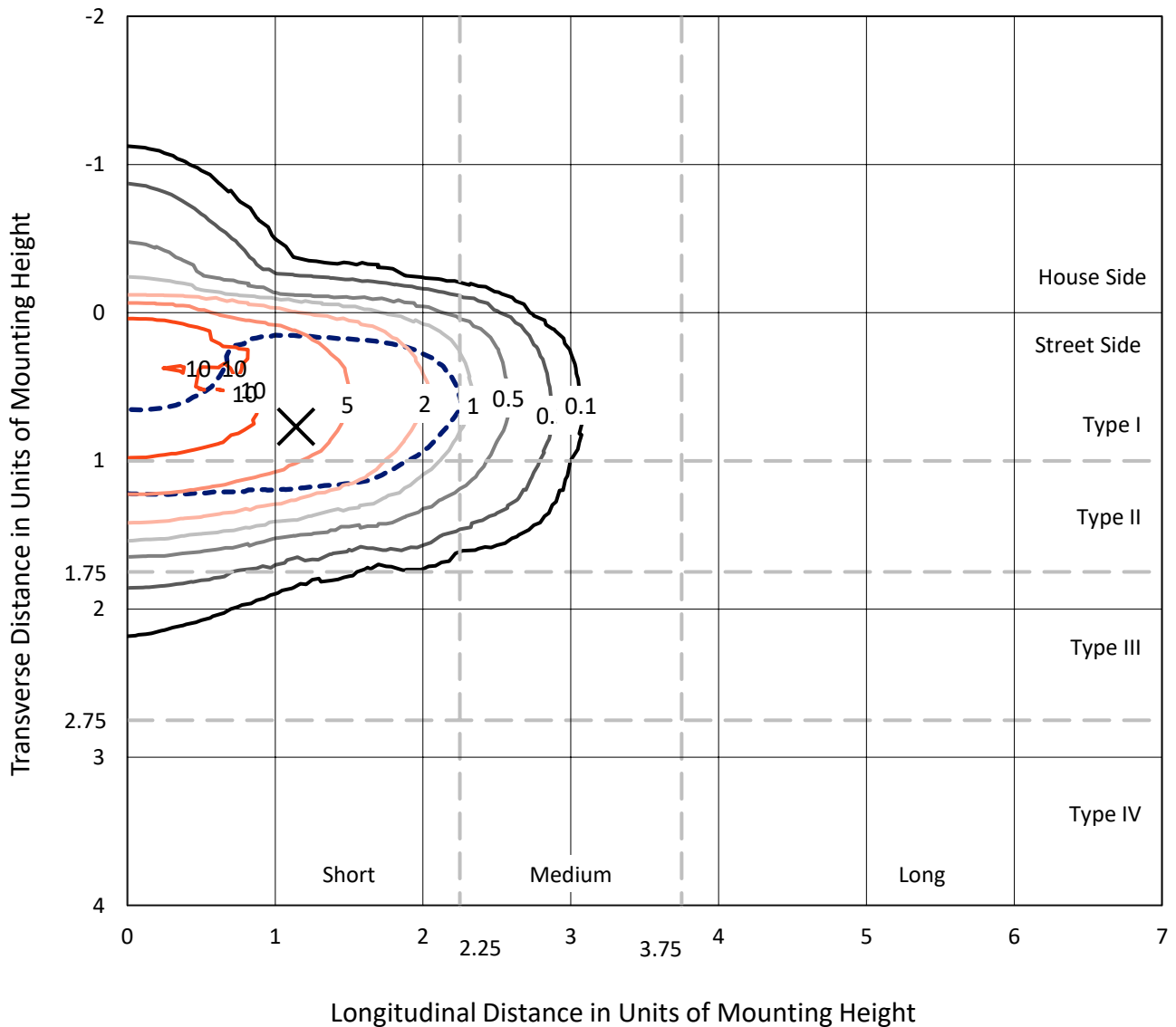
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

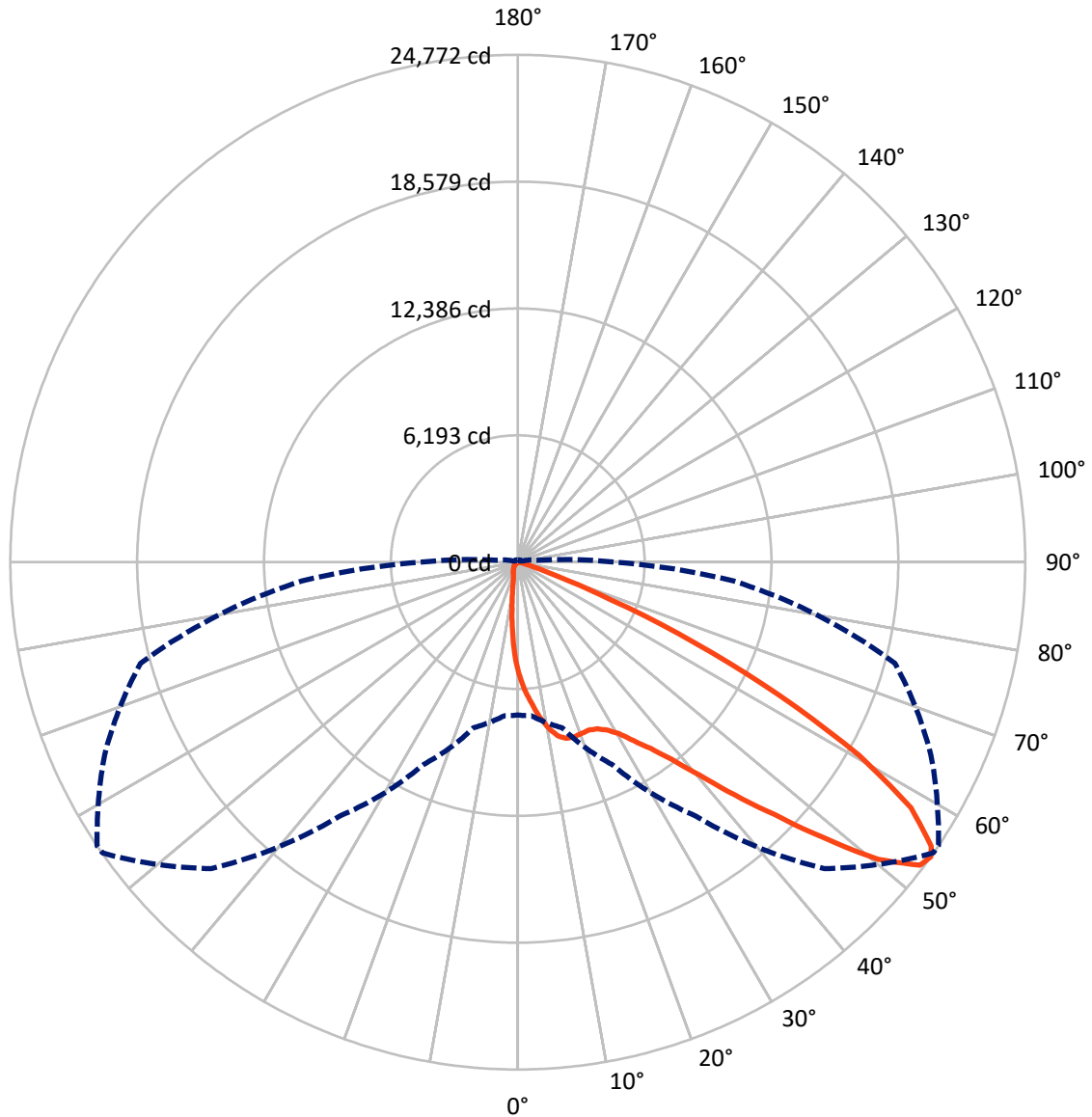
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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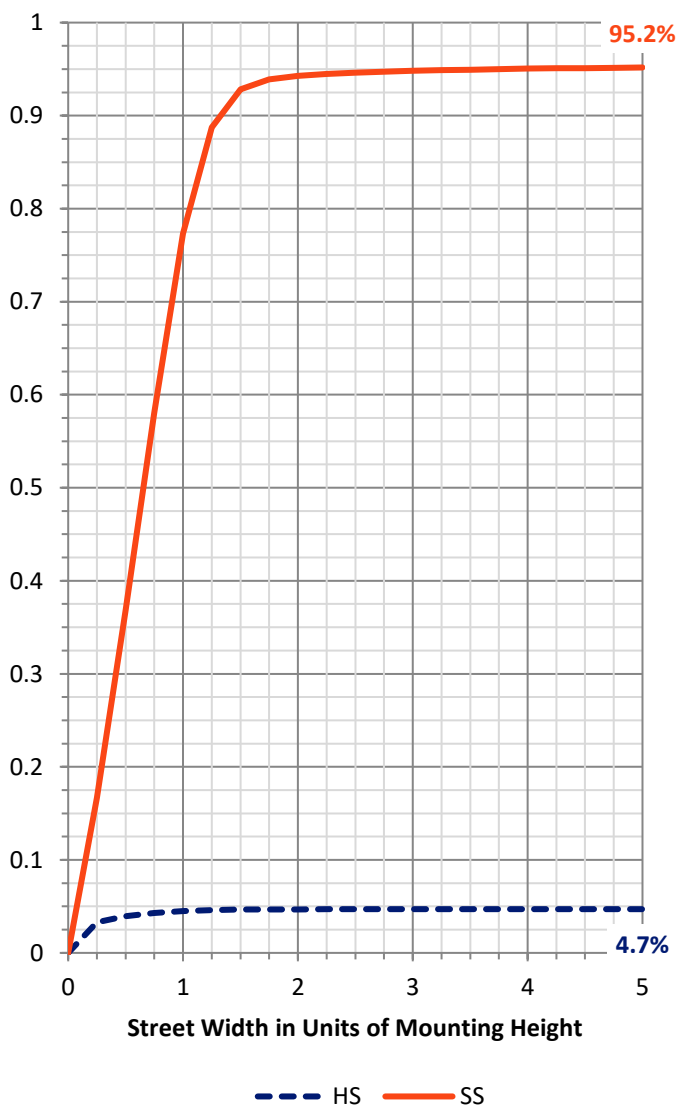
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.6	0.0	1149.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23161.4	0.0	23161.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	24311.0	0.0	24311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.3	2.0
10°-20°	1290.3	5.3
20°-30°	2234.6	9.2
30°-40°	3857.3	15.9
40°-50°	6565.3	27.0
50°-60°	6497.1	26.7
60°-70°	2965.4	12.2
70°-80°	380.8	1.6
80°-90°	42.9	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°	24311.0	100.0
0°-180°	24311.0	100.0

Coefficient of Utilization



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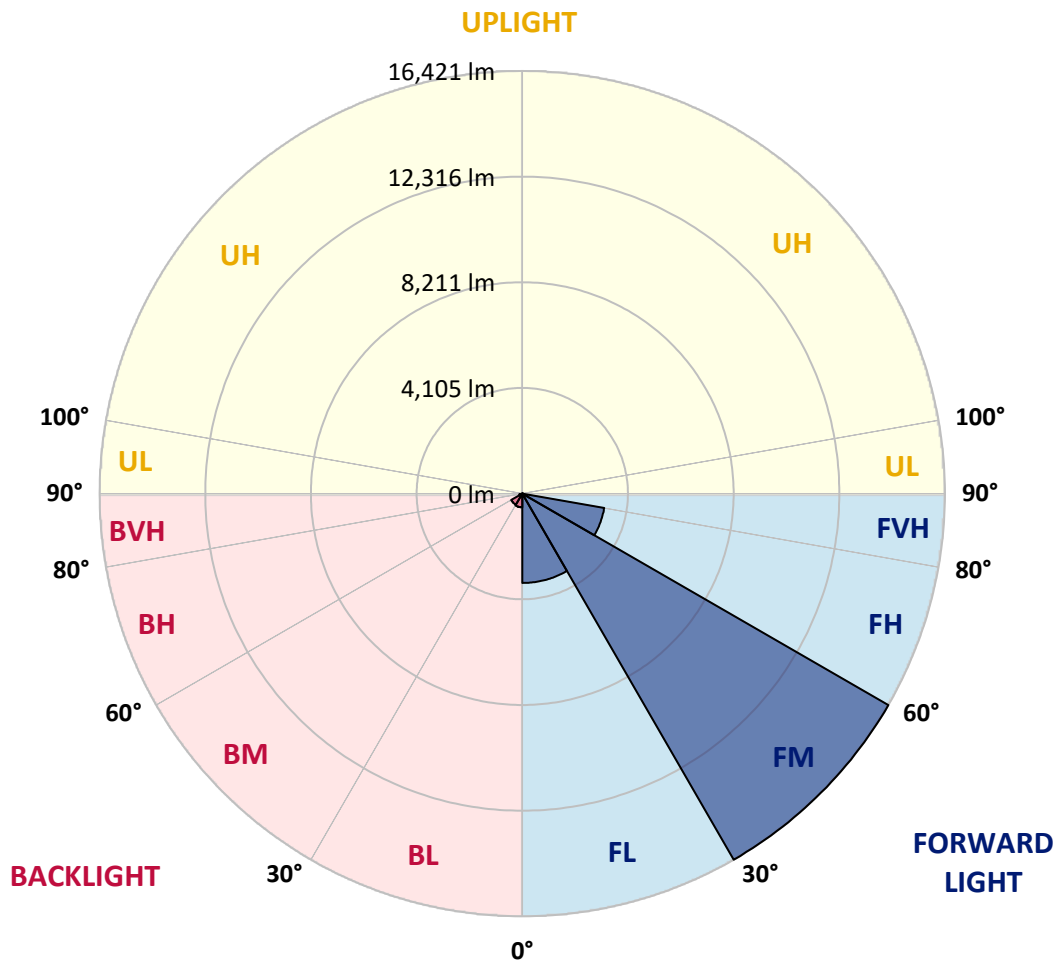
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3470.5	14.3			
FM (30°-60°)	16421.4	67.5			
FH (60°-80°)	3231.1	13.3			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	531.7	2.2	B2/1000		
BM (30°-60°)	498.2	2.0	B1/1000		
BH (60°-80°)	115.1	0.5	B1/500		G1/500
BVH (80°-90°)	4.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2
2.5°	6864.3	6816.7	6751.1	6700.3	6580.5	6408.3	6226.2	6226.2	6050.7	5806.3	5557.0
5°	7917.3	7886.1	7822.2	7690.9	7556.4	7315.3	6949.6	6885.6	6572.3	6129.5	5663.6
7.5°	8345.4	8360.1	8363.4	8329.0	8265.0	8027.2	7664.7	7620.4	7120.1	6526.4	5803.1
10°	7935.3	8007.5	8078.0	8220.7	8422.5	8479.9	8274.8	8228.9	7736.9	6928.2	5954.0
12.5°	7325.2	7364.5	7403.9	7628.6	8033.7	8497.9	8712.8	8711.1	8294.5	7328.4	6145.9
15°	7041.4	7075.9	7079.1	7179.2	7530.2	8206.0	8899.8	8924.4	8839.1	7822.2	6352.5
17.5°	7100.5	7128.3	7105.4	7130.0	7313.7	7884.5	8878.4	8960.5	9280.3	8296.2	6539.5
20°	7485.9	7540.0	7451.5	7382.6	7438.3	7799.2	8806.3	8921.1	9591.9	8758.7	6710.1
22.5°	8178.1	8207.6	8096.1	7907.4	7809.0	7978.0	8786.6	8899.8	9857.7	9137.6	6808.5
25°	8947.3	8937.5	8814.5	8602.9	8396.2	8338.8	8916.2	9017.9	10077.4	9478.8	6838.0
27.5°	9716.6	9746.1	9539.5	9277.0	9029.3	8880.1	9206.5	9281.9	10325.1	9867.5	6874.1
30°	10610.5	10562.9	10359.6	10059.4	9775.6	9567.3	9673.9	9695.3	10666.3	10382.5	6969.2
32.5°	11773.4	11642.2	11414.2	10889.3	10686.0	10333.3	10359.6	10385.8	11081.2	10892.6	7084.1
35°	13351.3	13344.7	12898.6	12191.7	11696.3	11258.4	11143.6	11164.9	11709.4	11650.4	7338.3
37.5°	15250.7	15276.9	14768.4	14056.6	13144.6	12449.2	12213.0	12216.3	12664.0	12696.9	7725.4
40°	16797.4	16866.3	16562.8	16082.2	15181.8	14094.3	13697.4	13661.3	14005.7	13964.7	8278.1
42.5°	17463.3	17527.3	17640.4	17807.7	17312.4	16415.2	15478.6	15527.9	15632.8	15345.8	8898.1
45°	17136.9	17238.6	17683.1	18716.4	19182.2	18880.4	17763.5	17591.2	17146.7	16846.6	9521.4
47.5°	15777.2	16024.8	16767.8	18488.4	20118.8	21139.0	20341.9	20113.9	18662.3	17942.2	9918.3
50°	13541.6	13556.3	14591.3	16790.8	19633.3	22564.3	22974.4	22803.8	20074.5	18557.3	10118.4
52.5°	9816.6	10139.8	11087.8	13635.1	17530.5	22347.8	24652.3	24581.8	21531.0	18872.2	10407.1
54°	7462.9	7525.3	8368.3	10895.9	15114.5	21158.7	24755.7	24772.1	22254.3	19062.5	10577.7
55°	6118.0	5968.7	6854.4	9281.9	13466.1	20107.3	24417.8	24496.5	22579.1	19160.9	10704.0
57.5°	2899.9	2901.5	3578.9	4896.0	8434.0	15613.1	22352.8	22631.6	22615.2	19329.9	11092.7
60°	1468.0	1477.8	1627.1	2260.2	4166.1	10379.2	18481.9	19146.1	20874.9	19354.5	11220.7
62.5°	1026.8	1015.3	990.7	1087.5	1753.4	5274.9	13759.7	14337.1	17735.6	18417.9	10813.9
65°	879.2	854.5	785.7	770.9	885.7	2101.1	8570.1	9511.6	13541.6	15947.7	9655.9
67.5°	751.2	741.4	679.0	641.3	626.6	915.2	4422.0	4917.3	9255.7	11463.4	7313.7
70°	638.0	633.1	595.4	547.8	506.8	547.8	1640.2	2032.2	5158.5	6172.1	3451.0
72.5°	518.3	523.2	529.8	469.1	426.5	388.7	700.4	815.2	2158.5	2206.1	1207.2
75°	454.3	449.4	449.4	408.4	355.9	288.7	385.4	415.0	661.0	613.4	280.5
77.5°	319.8	308.4	360.8	336.2	296.9	205.0	219.8	232.9	273.9	234.5	131.2
80°	221.4	221.4	231.3	301.8	267.4	149.3	134.5	144.3	162.4	139.4	75.4
82.5°	124.7	127.9	150.9	160.7	155.8	100.1	88.6	90.2	108.3	95.1	47.6
85°	14.8	24.6	86.9	85.3	64.0	44.3	49.2	50.8	67.2	59.0	27.9
87.5°	1.6	3.3	18.0	23.0	16.4	18.0	18.0	18.0	23.0	26.2	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°	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2	5401.2
2.5°	5422.5	5297.9	5001.0	4656.6	4436.8	4079.2	3777.4	3559.3	3505.1	3400.2	3431.3
5°	5416.0	5156.8	4551.6	3911.9	3229.6	2721.1	2342.2	2043.7	1912.5	1825.6	1764.9
7.5°	5419.2	5014.1	4043.1	3024.5	2209.4	1710.7	1359.7	1177.7	1056.3	1005.4	1012.0
10°	5429.1	4853.4	3452.6	2240.5	1490.9	1105.5	890.6	803.7	762.7	756.1	754.5
12.5°	5452.1	4677.9	2888.4	1663.2	1043.2	803.7	721.7	692.2	679.0	679.0	674.1
15°	5476.7	4484.3	2419.3	1236.7	803.7	690.5	652.8	638.0	629.8	629.8	628.2
17.5°	5476.7	4261.3	1981.4	959.5	692.2	634.8	605.2	585.6	579.0	579.0	577.4
20°	5442.2	4002.1	1592.6	772.5	628.2	582.3	552.8	531.4	523.2	519.9	518.3
22.5°	5322.5	3656.0	1267.9	664.3	575.7	536.3	498.6	474.0	467.5	464.2	465.8
25°	5109.2	3265.7	1003.8	583.9	528.1	480.6	447.8	429.7	423.2	423.2	424.8
27.5°	4889.5	2857.2	795.5	523.2	470.7	428.1	401.9	390.4	388.7	393.6	395.3
30°	4686.1	2447.2	644.6	474.0	419.9	383.8	365.8	362.5	362.5	364.1	365.8
32.5°	4459.7	2088.0	539.6	431.4	378.9	347.7	337.9	337.9	341.2	341.2	344.4
35°	4317.0	1779.6	474.0	390.4	347.7	321.5	314.9	316.6	321.5	328.0	331.3
37.5°	4239.9	1533.6	431.4	357.6	318.2	300.2	293.6	296.9	308.4	319.8	321.5
40°	4246.5	1348.3	396.9	329.7	295.2	275.6	270.6	280.5	292.0	303.4	305.1
42.5°	4318.7	1210.5	364.1	296.9	275.6	247.7	246.0	255.9	260.8	272.3	273.9
45°	4404.0	1110.4	329.7	262.4	239.5	214.9	216.5	224.7	231.3	249.3	252.6
47.5°	4430.2	1041.5	290.3	223.1	196.8	188.6	190.3	195.2	208.3	224.7	226.3
50°	4459.7	998.9	252.6	188.6	167.3	165.7	167.3	170.6	178.8	185.3	183.7
52.5°	4586.0	997.2	221.4	164.0	142.7	146.0	147.6	146.0	139.4	129.6	126.3
54°	4704.1	1002.2	206.7	152.5	131.2	136.1	134.5	126.3	109.9	100.1	95.1
55°	4799.2	1007.1	198.5	144.3	124.7	126.3	127.9	111.5	90.2	80.4	77.1
57.5°	4986.2	995.6	178.8	126.3	109.9	103.3	101.7	73.8	49.2	42.6	39.4
60°	4892.7	898.8	162.4	108.3	93.5	83.7	68.9	41.0	24.6	18.0	18.0
62.5°	4525.3	762.7	144.3	88.6	77.1	64.0	36.1	23.0	11.5	6.6	4.9
65°	4048.0	641.3	129.6	70.5	60.7	41.0	19.7	14.8	4.9	0.0	0.0
67.5°	3009.8	475.7	109.9	55.8	45.9	26.2	13.1	8.2	1.6	0.0	0.0
70°	1394.2	290.3	93.5	42.6	32.8	19.7	9.8	4.9	0.0	0.0	0.0
72.5°	400.2	182.1	77.1	31.2	23.0	16.4	8.2	3.3	1.6	0.0	0.0
75°	139.4	146.0	57.4	23.0	18.0	11.5	6.6	3.3	1.6	0.0	0.0
77.5°	83.7	118.1	36.1	19.7	14.8	9.8	6.6	3.3	1.6	1.6	0.0
80°	47.6	78.7	23.0	16.4	13.1	8.2	4.9	3.3	1.6	1.6	0.0
82.5°	26.2	37.7	18.0	14.8	11.5	8.2	4.9	3.3	1.6	1.6	1.6
85°	21.3	19.7	14.8	13.1	9.8	6.6	4.9	1.6	0.0	0.0	0.0
87.5°	16.4	13.1	13.1	13.1	9.8	6.6	4.9	1.6	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)