

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: P459125

Luminaire Tested: **GALN-SA6B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459125
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-SA6B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA 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: 25753 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

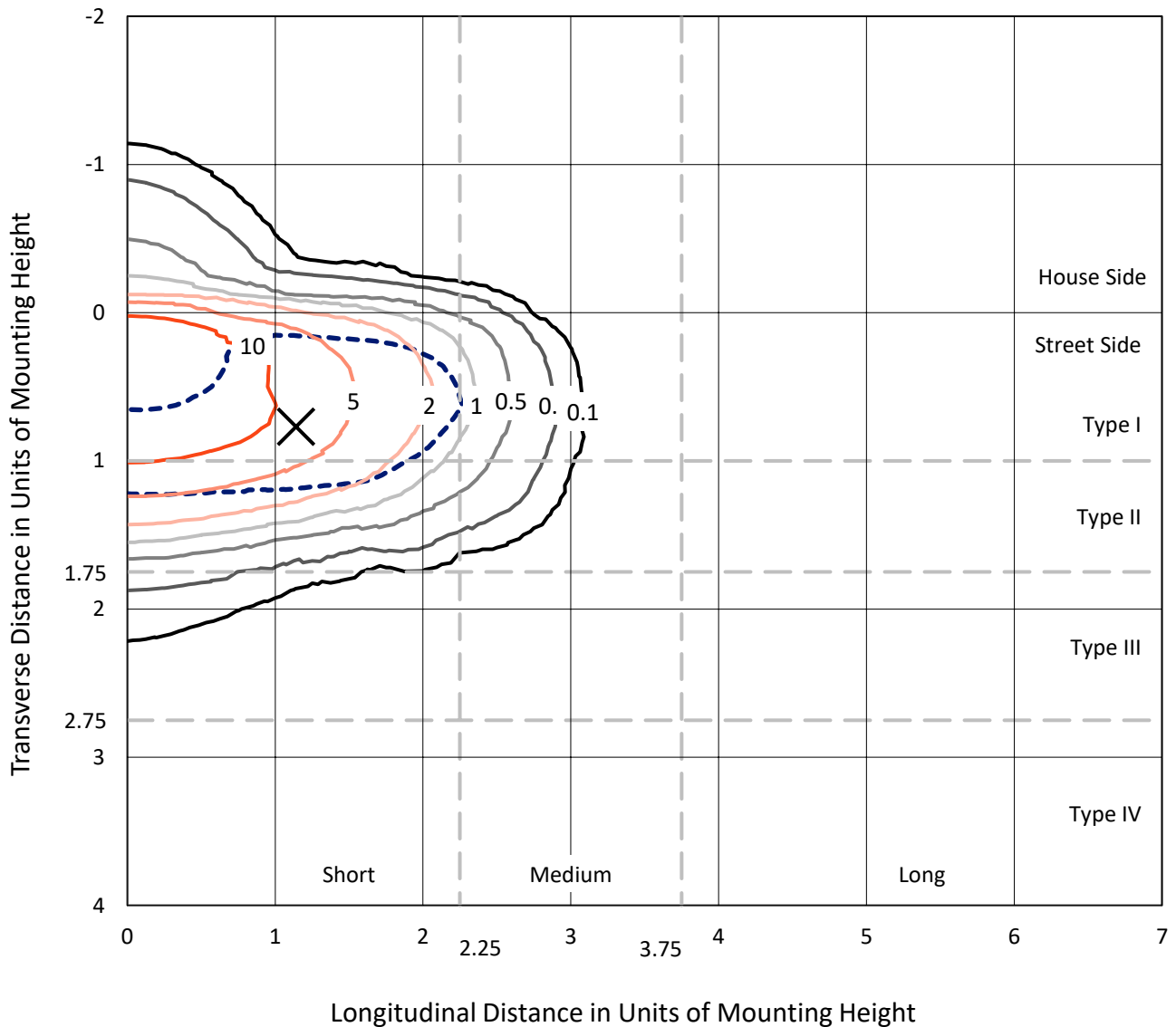
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

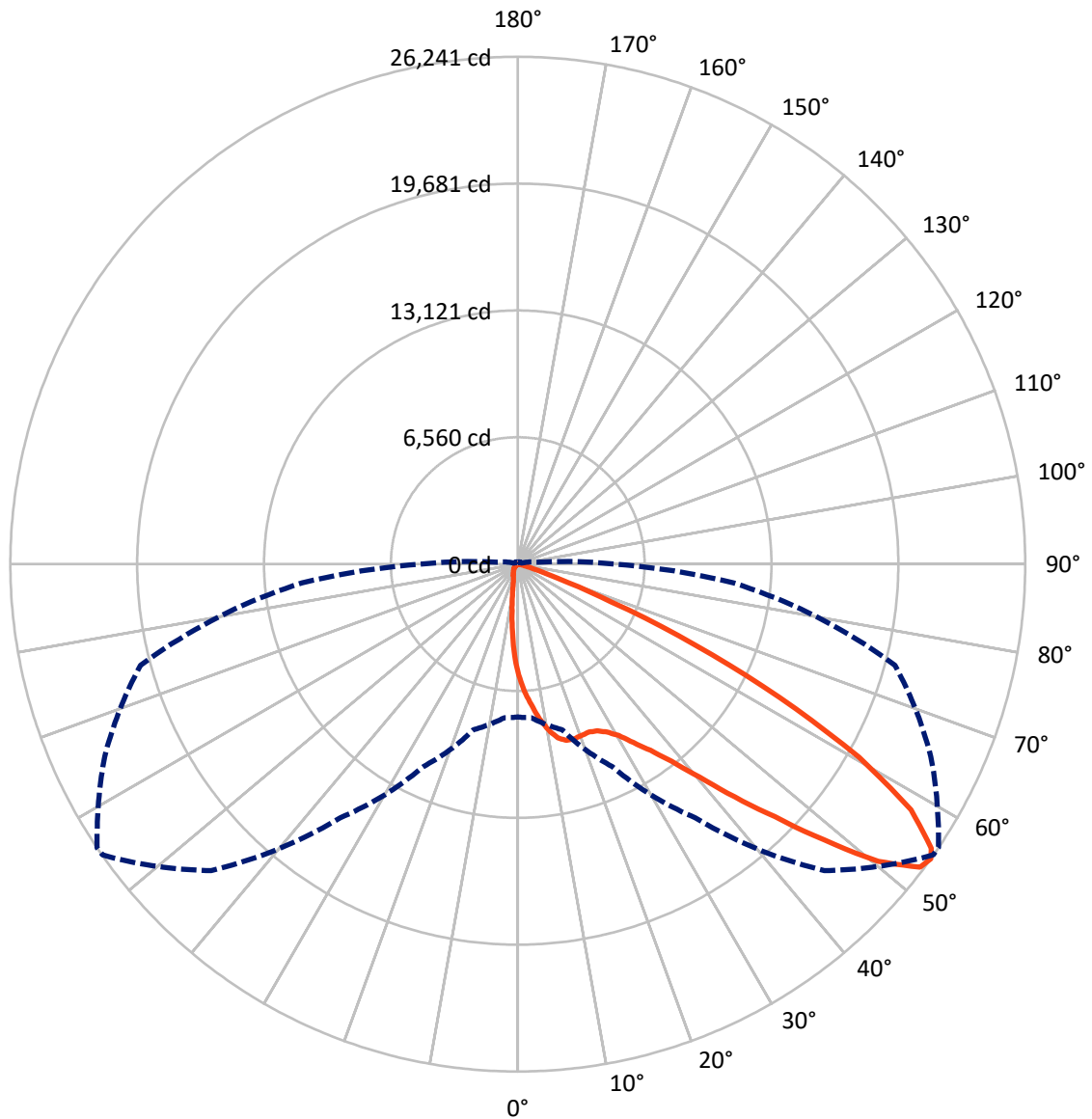
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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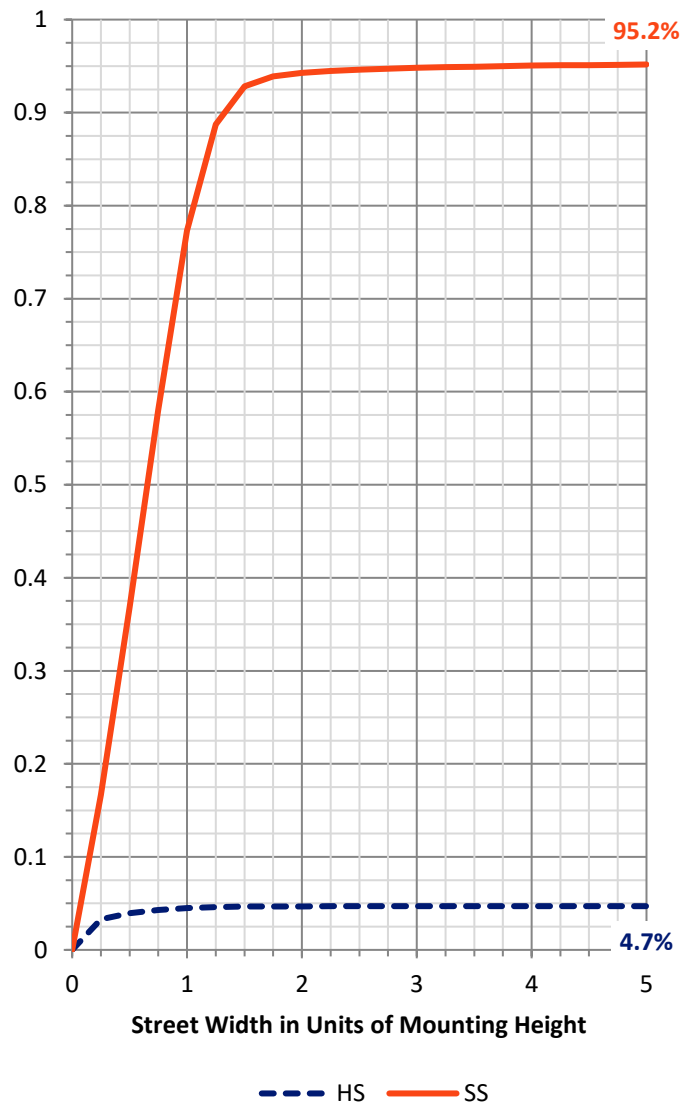
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.8	0.0	1217.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24535.2	0.0	24535.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	25753.0	0.0	25753.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	2.0
10°-20°	1366.8	5.3
20°-30°	2367.2	9.2
30°-40°	4086.1	15.9
40°-50°	6954.7	27.0
50°-60°	6882.5	26.7
60°-70°	3141.3	12.2
70°-80°	403.4	1.6
80°-90°	45.5	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°	25753.0	100.0
0°-180°	25753.0	100.0

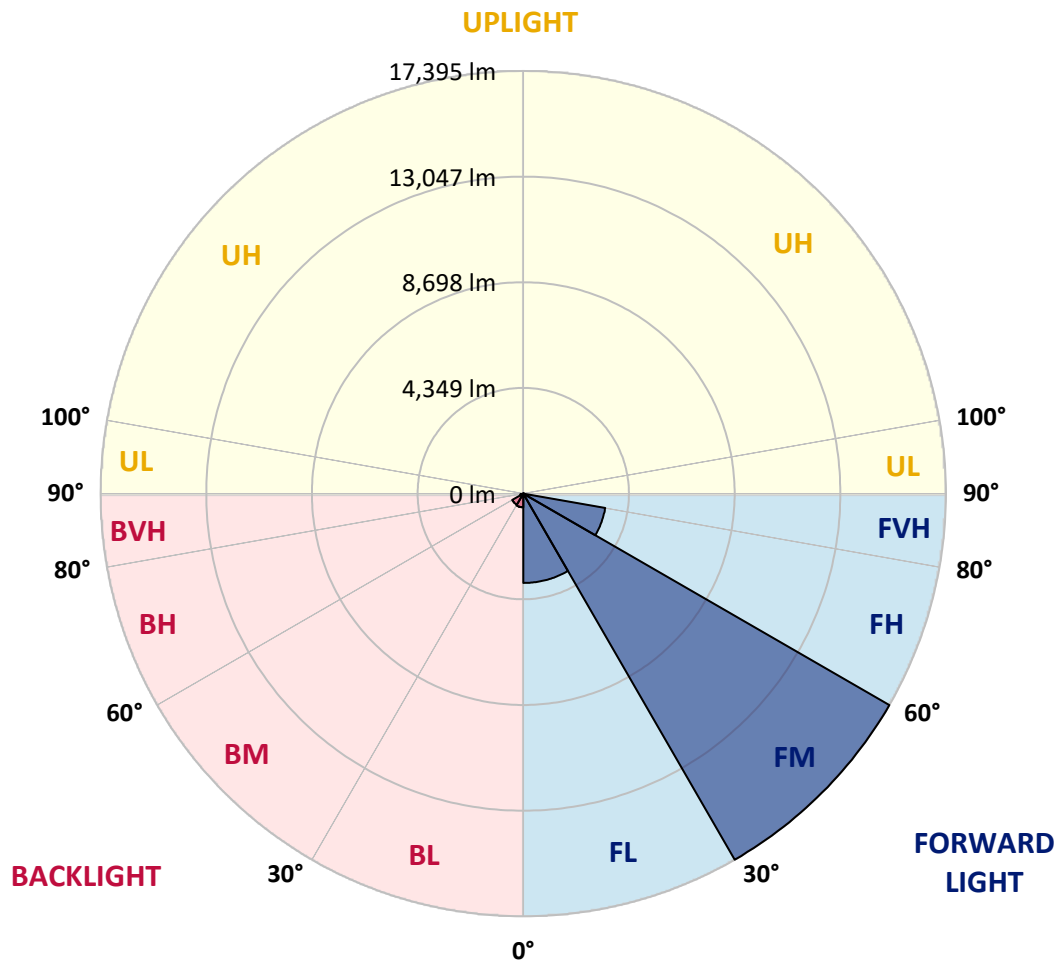


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3676.3	14.3			
FM (30°-60°)	17395.5	67.5			
FH (60°-80°)	3422.8	13.3			G2/5000
FVH (80°-90°)	40.6	0.2			G1/100
BL (0°-30°)	563.2	2.2	B2/1000		
BM (30°-60°)	527.8	2.0	B1/1000		
BH (60°-80°)	121.9	0.5	B1/500		G1/500
BVH (80°-90°)	4.9	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°	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6
2.5°	7271.4	7221.0	7151.5	7097.7	6970.8	6788.4	6595.5	6595.5	6409.6	6150.7	5886.6
5°	8386.9	8353.9	8286.1	8147.1	8004.6	7749.2	7361.8	7294.0	6962.1	6493.0	5999.6
7.5°	8840.4	8856.0	8859.5	8823.0	8755.2	8503.3	8119.3	8072.4	7542.5	6913.5	6147.3
10°	8406.0	8482.5	8557.2	8708.3	8922.0	8982.9	8765.7	8717.0	8195.8	7339.2	6307.1
12.5°	7759.7	7801.4	7843.1	8081.1	8510.3	9002.0	9229.6	9227.8	8786.5	7763.1	6510.4
15°	7459.1	7495.6	7499.0	7605.0	7976.8	8692.7	9427.7	9453.7	9363.4	8286.1	6729.3
17.5°	7521.6	7551.2	7526.8	7552.9	7747.5	8352.1	9405.1	9491.9	9830.8	8788.3	6927.4
20°	7929.9	7987.3	7893.4	7820.5	7879.5	8261.8	9328.6	9450.2	10160.9	9278.2	7108.1
22.5°	8663.2	8694.4	8576.3	8376.5	8272.2	8451.2	9307.8	9427.7	10442.4	9679.6	7212.3
25°	9478.0	9467.6	9337.3	9113.2	8894.2	8833.4	9445.0	9552.8	10675.2	10041.0	7243.6
27.5°	10292.9	10324.2	10105.3	9827.3	9564.9	9406.8	9752.6	9832.5	10937.5	10452.8	7281.8
30°	11239.9	11189.5	10974.0	10656.1	10355.5	10134.8	10247.8	10270.3	11298.9	10998.4	7382.6
32.5°	12471.8	12332.8	12091.2	11535.2	11319.8	10946.2	10974.0	11001.8	11738.5	11538.7	7504.2
35°	14143.2	14136.3	13663.7	12914.8	12390.1	11926.2	11804.6	11827.1	12404.0	12341.4	7773.6
37.5°	16155.2	16183.0	15644.4	14890.3	13924.3	13187.6	12937.4	12940.9	13415.2	13450.0	8183.6
40°	17793.7	17866.7	17545.2	17036.2	16082.3	14930.3	14509.8	14471.6	14836.5	14793.0	8769.1
42.5°	18499.1	18566.9	18686.8	18864.0	18339.3	17388.9	16396.8	16448.9	16560.1	16256.0	9425.9
45°	18153.4	18261.1	18732.0	19826.6	20320.0	20000.3	18817.1	18634.7	18163.8	17845.8	10086.2
47.5°	16713.0	16975.3	17762.4	19585.1	21312.1	22392.9	21548.4	21306.9	19769.2	19006.5	10506.6
50°	14344.8	14360.4	15456.8	17786.8	20797.8	23902.7	24337.1	24156.4	21265.2	19658.0	10718.6
52.5°	10398.9	10741.2	11745.5	14443.8	18570.4	23673.4	26114.6	26039.9	22808.1	19991.6	11024.4
54°	7905.6	7971.6	8864.7	11542.2	16011.0	22413.7	26224.0	26241.4	23574.4	20193.2	11205.1
55°	6480.9	6322.8	7261.0	9832.5	14264.8	21300.0	25866.1	25949.5	23918.4	20297.4	11338.9
57.5°	3071.9	3073.6	3791.2	5186.4	8934.2	16539.2	23678.6	23974.0	23956.6	20476.4	11750.7
60°	1555.1	1565.5	1723.6	2394.3	4413.2	10994.9	19578.1	20281.8	22113.1	20502.5	11886.2
62.5°	1087.7	1075.5	1049.4	1152.0	1857.4	5587.8	14575.9	15187.5	18787.6	19510.3	11455.3
65°	931.3	905.2	832.3	816.6	938.2	2225.7	9078.4	10075.7	14344.8	16893.7	10228.6
67.5°	795.8	785.3	719.3	679.4	663.7	969.5	4684.3	5209.0	9804.7	12143.4	7747.5
70°	675.9	670.7	630.7	580.3	536.9	580.3	1737.5	2152.8	5464.4	6538.2	3655.7
72.5°	549.0	554.3	561.2	496.9	451.7	411.8	741.9	863.5	2286.5	2336.9	1278.8
75°	481.3	476.1	476.1	432.6	377.0	305.8	408.3	439.6	700.2	649.8	297.1
77.5°	338.8	326.6	382.2	356.2	314.5	217.2	232.8	246.7	290.2	248.5	139.0
80°	234.6	234.6	245.0	319.7	283.2	158.1	142.5	152.9	172.0	147.7	79.9
82.5°	132.0	135.5	159.8	170.3	165.1	106.0	93.8	95.6	114.7	100.8	50.4
85°	15.6	26.1	92.1	90.3	67.8	46.9	52.1	53.9	71.2	62.5	29.5
87.5°	1.7	3.5	19.1	24.3	17.4	19.1	19.1	19.1	24.3	27.8	20.8
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°	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6
2.5°	5744.2	5612.1	5297.6	4932.8	4699.9	4321.2	4001.5	3770.4	3713.0	3601.8	3634.8
5°	5737.2	5462.7	4821.6	4143.9	3421.1	2882.5	2481.1	2164.9	2025.9	1933.8	1869.5
7.5°	5740.7	5311.5	4282.9	3203.9	2340.4	1812.2	1440.4	1247.5	1118.9	1065.1	1072.0
10°	5751.1	5141.3	3657.4	2373.4	1579.4	1171.1	943.5	851.4	807.9	801.0	799.2
12.5°	5775.4	4955.3	3059.7	1761.8	1105.0	851.4	764.5	733.2	719.3	719.3	714.1
15°	5801.5	4750.3	2562.8	1310.1	851.4	731.5	691.5	675.9	667.2	667.2	665.5
17.5°	5801.5	4514.0	2098.9	1016.4	733.2	672.4	641.1	620.3	613.3	613.3	611.6
20°	5765.0	4239.5	1687.1	818.4	665.5	616.8	585.5	562.9	554.3	550.8	549.0
22.5°	5638.2	3872.9	1343.1	703.7	609.9	568.2	528.2	502.1	495.2	491.7	493.4
25°	5412.3	3459.4	1063.3	618.5	559.5	509.1	474.3	455.2	448.3	448.3	450.0
27.5°	5179.5	3026.7	842.7	554.3	498.7	453.5	425.7	413.5	411.8	417.0	418.7
30°	4964.0	2592.3	682.8	502.1	444.8	406.6	387.5	384.0	384.0	385.7	387.5
32.5°	4724.3	2211.8	571.6	457.0	401.4	368.3	357.9	357.9	361.4	361.4	364.9
35°	4573.1	1885.2	502.1	413.5	368.3	340.5	333.6	335.3	340.5	347.5	351.0
37.5°	4491.4	1624.6	457.0	378.8	337.1	318.0	311.0	314.5	326.6	338.8	340.5
40°	4498.4	1428.2	420.5	349.2	312.7	291.9	286.7	297.1	309.3	321.4	323.2
42.5°	4574.8	1282.3	385.7	314.5	291.9	262.4	260.6	271.0	276.3	288.4	290.2
45°	4665.2	1176.3	349.2	278.0	253.7	227.6	229.3	238.0	245.0	264.1	267.6
47.5°	4693.0	1103.3	307.5	236.3	208.5	199.8	201.5	206.8	220.7	238.0	239.8
50°	4724.3	1058.1	267.6	199.8	177.2	175.5	177.2	180.7	189.4	196.3	194.6
52.5°	4858.0	1056.4	234.6	173.7	151.2	154.6	156.4	154.6	147.7	137.3	133.8
54°	4983.1	1061.6	218.9	161.6	139.0	144.2	142.5	133.8	116.4	106.0	100.8
55°	5083.9	1066.8	210.2	152.9	132.0	133.8	135.5	118.1	95.6	85.1	81.7
57.5°	5282.0	1054.7	189.4	133.8	116.4	109.5	107.7	78.2	52.1	45.2	41.7
60°	5183.0	952.1	172.0	114.7	99.0	88.6	73.0	43.4	26.1	19.1	19.1
62.5°	4793.8	807.9	152.9	93.8	81.7	67.8	38.2	24.3	12.2	6.9	5.2
65°	4288.1	679.4	137.3	74.7	64.3	43.4	20.8	15.6	5.2	0.0	0.0
67.5°	3188.3	503.9	116.4	59.1	48.6	27.8	13.9	8.7	1.7	0.0	0.0
70°	1476.9	307.5	99.0	45.2	34.7	20.8	10.4	5.2	0.0	0.0	0.0
72.5°	423.9	192.9	81.7	33.0	24.3	17.4	8.7	3.5	1.7	0.0	0.0
75°	147.7	154.6	60.8	24.3	19.1	12.2	6.9	3.5	1.7	0.0	0.0
77.5°	88.6	125.1	38.2	20.8	15.6	10.4	6.9	3.5	1.7	1.7	0.0
80°	50.4	83.4	24.3	17.4	13.9	8.7	5.2	3.5	1.7	1.7	0.0
82.5°	27.8	40.0	19.1	15.6	12.2	8.7	5.2	3.5	1.7	1.7	1.7
85°	22.6	20.8	15.6	13.9	10.4	6.9	5.2	1.7	0.0	0.0	0.0
87.5°	17.4	13.9	13.9	13.9	10.4	6.9	5.2	1.7	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)