

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: P648089

Luminaire Tested: **GALN-SA8A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648089
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-SA8A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 23689.7 lumens
Efficiency: N/A
Efficacy: 97.1 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

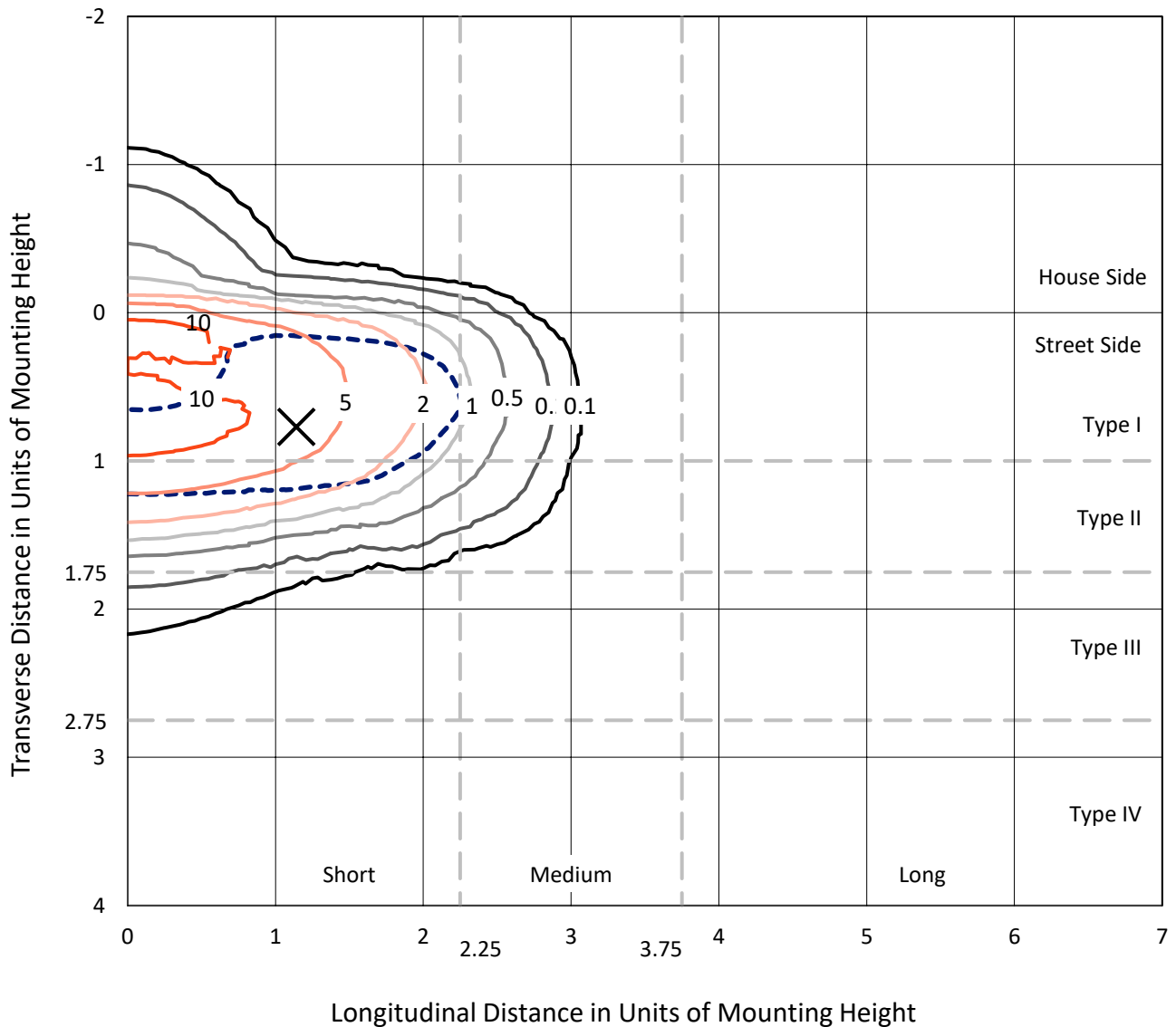
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

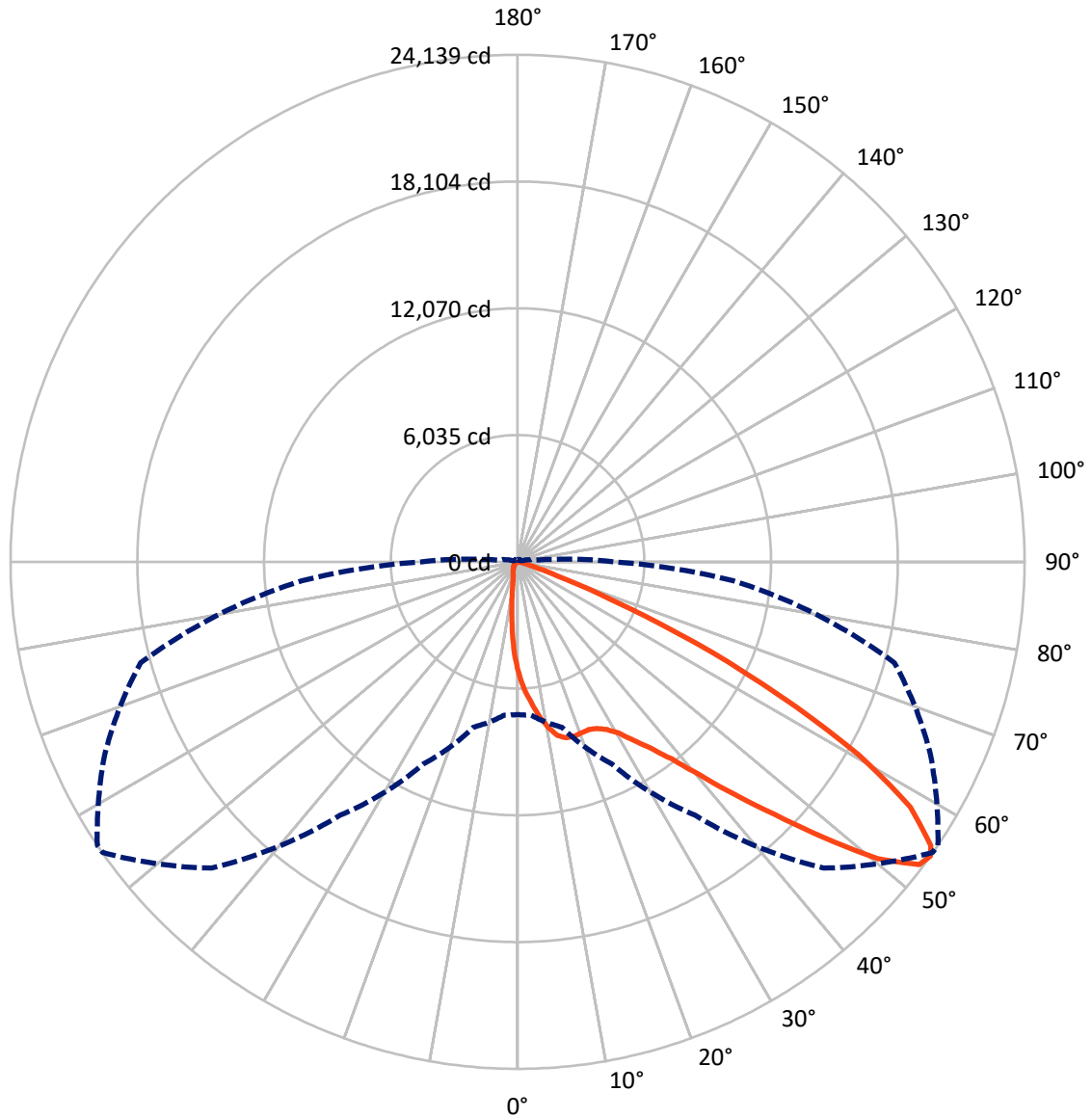
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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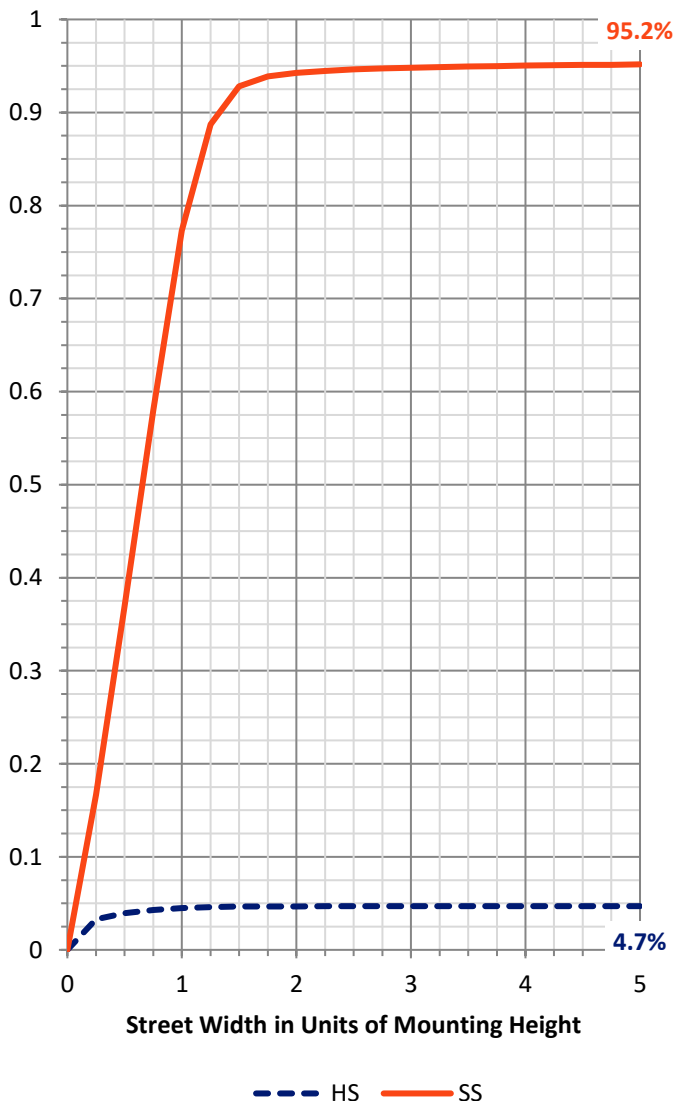
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1120.2	0.0	1120.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22569.4	0.0	22569.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	23689.7	0.0	23689.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	2.0
10°-20°	1257.3	5.3
20°-30°	2177.5	9.2
30°-40°	3758.7	15.9
40°-50°	6397.5	27.0
50°-60°	6331.1	26.7
60°-70°	2889.6	12.2
70°-80°	371.1	1.6
80°-90°	41.8	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°	23689.7	100.0
0°-180°	23689.7	100.0

Coefficient of Utilization

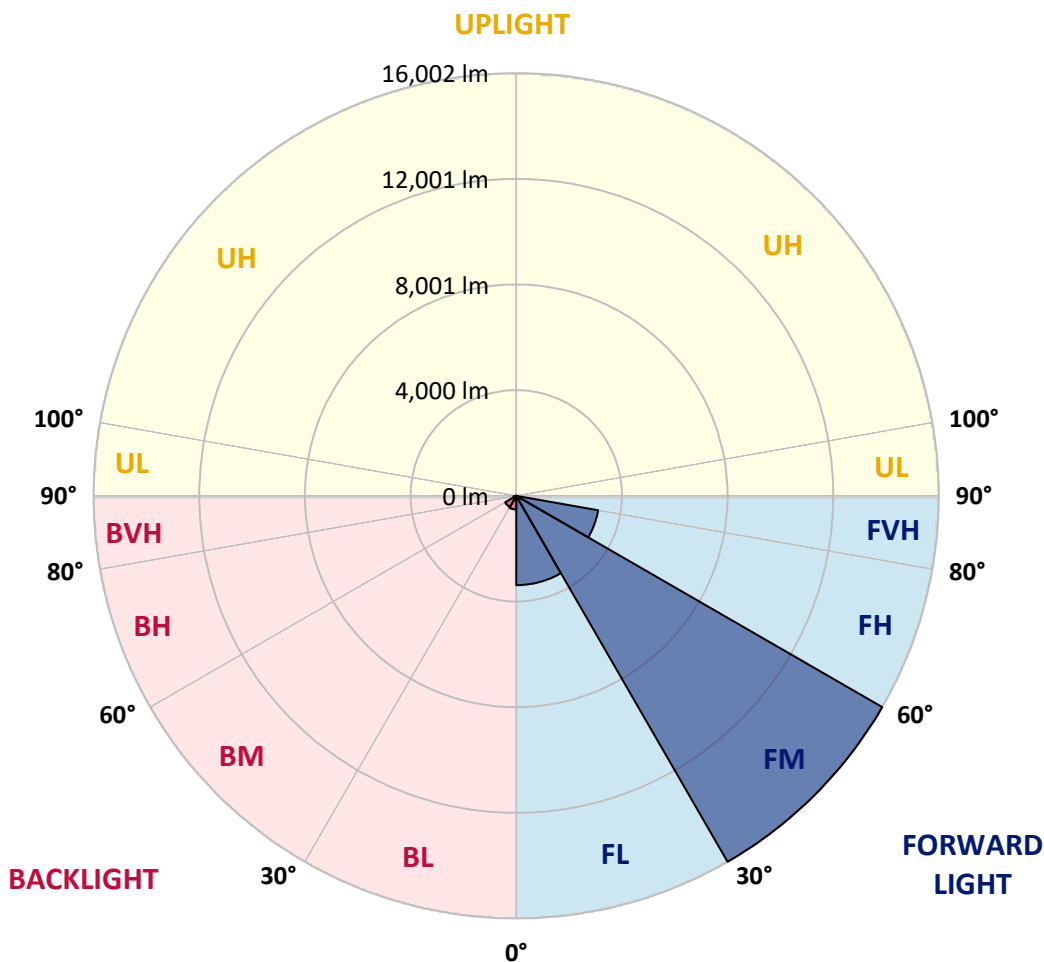


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.8	14.3			
FM (30°-60°)	16001.8	67.5			
FH (60°-80°)	3148.6	13.3			G2/5000
FVH (80°-90°)	37.3	0.2			G1/100
BL (0°-30°)	518.1	2.2	B2/1000		
BM (30°-60°)	485.5	2.0	B1/1000		
BH (60°-80°)	112.2	0.5	B1/500		G1/500
BVH (80°-90°)	4.5	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°	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2
2.5°	6688.9	6642.5	6578.5	6529.0	6412.3	6244.5	6067.1	6067.1	5896.1	5658.0	5415.0
5°	7714.9	7684.6	7622.3	7494.4	7363.3	7128.4	6771.9	6709.6	6404.3	5972.8	5518.9
7.5°	8132.1	8146.5	8149.7	8116.1	8053.8	7822.0	7468.8	7425.7	6938.2	6359.6	5654.7
10°	7732.5	7802.8	7871.6	8010.6	8207.2	8263.2	8063.3	8018.6	7539.1	6751.2	5801.8
12.5°	7138.0	7176.4	7214.6	7433.6	7828.4	8280.7	8490.1	8488.5	8082.5	7141.1	5988.8
15°	6861.4	6895.0	6898.2	6995.7	7337.7	7996.2	8672.3	8696.3	8613.2	7622.3	6190.2
17.5°	6919.0	6946.1	6923.8	6947.8	7126.8	7683.0	8651.5	8731.5	9043.1	8084.2	6372.4
20°	7294.6	7347.4	7261.0	7193.9	7248.2	7599.9	8581.2	8693.1	9346.8	8534.9	6538.6
22.5°	7969.1	7997.8	7889.1	7705.3	7609.4	7774.1	8562.0	8672.3	9605.7	8904.0	6634.5
25°	8718.6	8709.1	8589.2	8383.0	8181.6	8125.7	8688.3	8787.4	9819.9	9236.5	6663.3
27.5°	9468.3	9497.0	9295.6	9039.9	8798.6	8653.2	8971.2	9044.7	10061.2	9615.3	6698.4
30°	10339.4	10293.0	10094.7	9802.3	9525.8	9322.8	9426.7	9447.4	10393.7	10117.1	6791.1
32.5°	11472.5	11344.7	11122.5	10611.1	10412.9	10069.2	10094.7	10120.4	10798.0	10614.3	6903.0
35°	13010.1	13003.7	12569.0	11880.1	11397.4	10970.6	10858.8	10879.6	11410.2	11352.6	7150.7
37.5°	14860.9	14886.5	14391.0	13697.3	12808.7	12131.0	11900.8	11904.0	12340.4	12372.3	7527.9
40°	16368.1	16435.2	16139.5	15671.2	14793.8	13734.1	13347.3	13312.2	13647.8	13607.8	8066.5
42.5°	17016.9	17079.3	17189.6	17352.6	16869.9	15995.7	15083.0	15131.0	15233.3	14953.6	8670.7
45°	16698.9	16798.0	17231.2	18238.0	18692.0	18397.9	17309.5	17141.7	16708.5	16416.0	9278.1
47.5°	15374.0	15615.3	16339.3	18015.9	19604.6	20598.8	19822.0	19599.8	18185.3	17483.7	9664.9
50°	13195.4	13209.8	14218.3	16361.6	19131.5	21987.7	22387.2	22221.0	19561.5	18083.0	9859.8
52.5°	9565.8	9880.6	10804.5	13286.6	17082.5	21776.6	24022.3	23953.5	20980.7	18389.9	10141.1
54°	7272.2	7333.0	8154.5	10617.4	14728.2	20617.9	24123.0	24139.0	21685.6	18575.3	10307.3
55°	5961.6	5816.2	6679.2	9044.7	13122.0	19593.4	23793.7	23870.5	22002.1	18671.2	10430.4
57.5°	2825.8	2827.3	3487.5	4770.9	8218.4	15214.1	21781.5	22053.2	22037.2	18835.8	10809.2
60°	1430.5	1440.1	1585.5	2202.4	4059.6	10113.9	18009.5	18656.9	20341.4	18859.8	10933.9
62.5°	1000.5	989.3	965.4	1059.6	1708.6	5140.1	13408.0	13970.6	17282.3	17947.1	10537.5
65°	856.7	832.7	765.6	751.2	863.1	2047.4	8351.1	9268.4	13195.4	15540.1	9409.2
67.5°	732.0	722.4	661.7	624.9	610.6	891.8	4309.0	4791.6	9019.1	11170.4	7126.8
70°	621.7	616.9	580.2	533.8	493.8	533.8	1598.3	1980.3	5026.6	6014.4	3362.8
72.5°	505.0	509.9	516.2	457.1	415.5	378.8	682.5	794.4	2103.4	2149.7	1176.3
75°	442.7	437.9	437.9	398.0	346.8	281.3	375.6	404.3	644.1	597.7	273.3
77.5°	311.6	300.5	351.6	327.7	289.3	199.8	214.2	227.0	266.9	228.6	127.9
80°	215.8	215.8	225.3	294.1	260.5	145.5	131.1	140.6	158.2	135.9	73.5
82.5°	121.4	124.7	147.0	156.6	151.8	97.5	86.3	87.9	105.5	92.7	46.4
85°	14.4	24.0	84.7	83.1	62.3	43.1	47.9	49.6	65.5	57.6	27.2
87.5°	1.6	3.2	17.6	22.4	16.0	17.6	17.6	17.6	22.4	25.6	19.2
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°	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2	5263.2
2.5°	5283.9	5162.5	4873.2	4537.6	4323.3	3975.0	3680.9	3468.3	3415.5	3313.3	3343.6
5°	5277.6	5025.0	4435.2	3811.9	3147.0	2651.6	2282.4	1991.5	1863.6	1778.9	1719.8
7.5°	5280.7	4886.0	3939.7	2947.2	2152.9	1667.0	1325.0	1147.6	1029.3	979.8	986.1
10°	5290.3	4729.3	3364.4	2183.2	1452.9	1077.3	867.9	783.2	743.2	736.8	735.2
12.5°	5312.7	4558.3	2814.6	1620.7	1016.5	783.2	703.2	674.5	661.7	661.7	656.9
15°	5336.7	4369.7	2357.5	1205.1	783.2	672.9	636.1	621.7	613.7	613.7	612.1
17.5°	5336.7	4152.3	1930.7	935.0	674.5	618.6	589.8	570.6	564.2	564.2	562.6
20°	5303.1	3899.8	1551.9	752.8	612.1	567.4	538.6	517.9	509.9	506.7	505.0
22.5°	5186.4	3562.6	1235.5	647.3	561.0	522.7	485.9	461.9	455.5	452.3	453.9
25°	4978.7	3182.2	978.1	569.0	514.7	468.3	436.4	418.7	412.3	412.3	414.0
27.5°	4764.5	2784.2	775.2	509.9	458.7	417.2	391.6	380.4	378.8	383.6	385.2
30°	4566.3	2384.6	628.1	461.9	409.2	374.0	356.4	353.2	353.2	354.9	356.4
32.5°	4345.7	2034.6	525.9	420.3	369.2	338.8	329.3	329.3	332.5	332.5	335.7
35°	4206.7	1734.1	461.9	380.4	338.8	313.3	306.9	308.5	313.3	319.6	322.8
37.5°	4131.6	1494.4	420.3	348.4	310.1	292.5	286.1	289.3	300.5	311.6	313.3
40°	4138.0	1313.8	386.8	321.3	287.7	268.5	263.7	273.3	284.5	295.7	297.3
42.5°	4208.3	1179.5	354.9	289.3	268.5	241.3	239.8	249.3	254.2	265.3	266.9
45°	4291.4	1082.0	321.3	255.7	233.3	209.4	210.9	218.9	225.3	243.0	246.2
47.5°	4317.0	1014.9	282.9	217.4	191.8	183.8	185.4	190.2	203.0	218.9	220.6
50°	4345.7	973.3	246.2	183.8	163.0	161.5	163.0	166.2	174.2	180.6	179.0
52.5°	4468.8	971.8	215.8	159.8	139.1	142.3	143.8	142.3	135.9	126.3	123.1
54°	4583.9	976.6	201.4	148.6	127.9	132.6	131.1	123.1	107.1	97.5	92.7
55°	4676.6	981.3	193.4	140.6	121.4	123.1	124.7	108.7	87.9	78.3	75.1
57.5°	4858.8	970.1	174.2	123.1	107.1	100.7	99.1	72.0	47.9	41.6	38.4
60°	4767.7	875.9	158.2	105.5	91.1	81.5	67.1	39.9	24.0	17.6	17.6
62.5°	4409.7	743.2	140.6	86.3	75.1	62.3	35.2	22.4	11.2	6.4	4.8
65°	3944.6	624.9	126.3	68.7	59.1	39.9	19.2	14.4	4.8	0.0	0.0
67.5°	2932.9	463.5	107.1	54.3	44.8	25.6	12.8	8.0	1.6	0.0	0.0
70°	1358.6	282.9	91.1	41.6	31.9	19.2	9.6	4.8	0.0	0.0	0.0
72.5°	390.0	177.4	75.1	30.4	22.4	16.0	8.0	3.2	1.6	0.0	0.0
75°	135.9	142.3	55.9	22.4	17.6	11.2	6.4	3.2	1.6	0.0	0.0
77.5°	81.5	115.1	35.2	19.2	14.4	9.6	6.4	3.2	1.6	1.6	0.0
80°	46.4	76.7	22.4	16.0	12.8	8.0	4.8	3.2	1.6	1.6	0.0
82.5°	25.6	36.7	17.6	14.4	11.2	8.0	4.8	3.2	1.6	1.6	1.6
85°	20.7	19.2	14.4	12.8	9.6	6.4	4.8	1.6	0.0	0.0	0.0
87.5°	16.0	12.8	12.8	12.8	9.6	6.4	4.8	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)