

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: P648364

Luminaire Tested: **GALN-SA4B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648364
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-SA4B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 14440.8 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

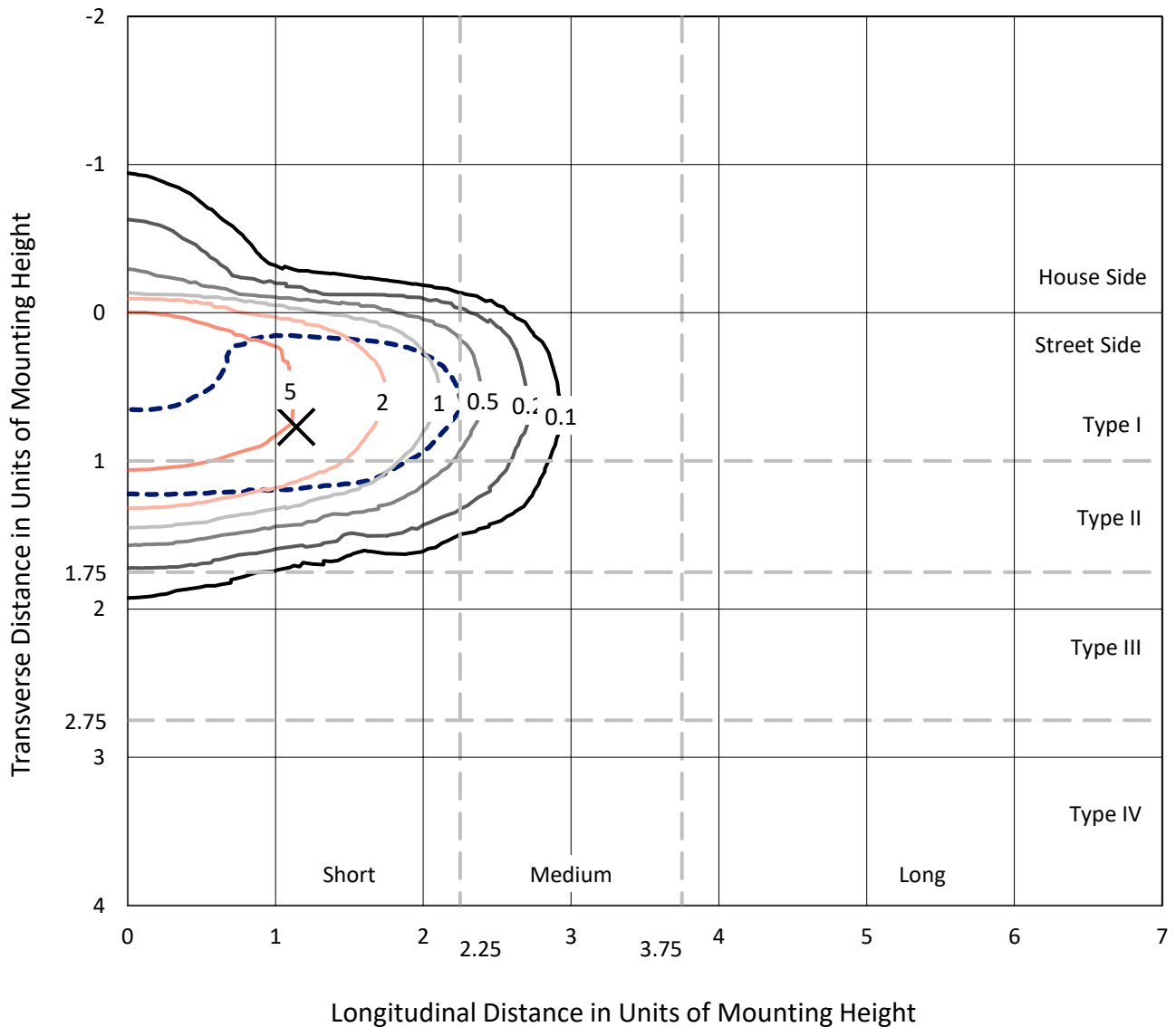
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

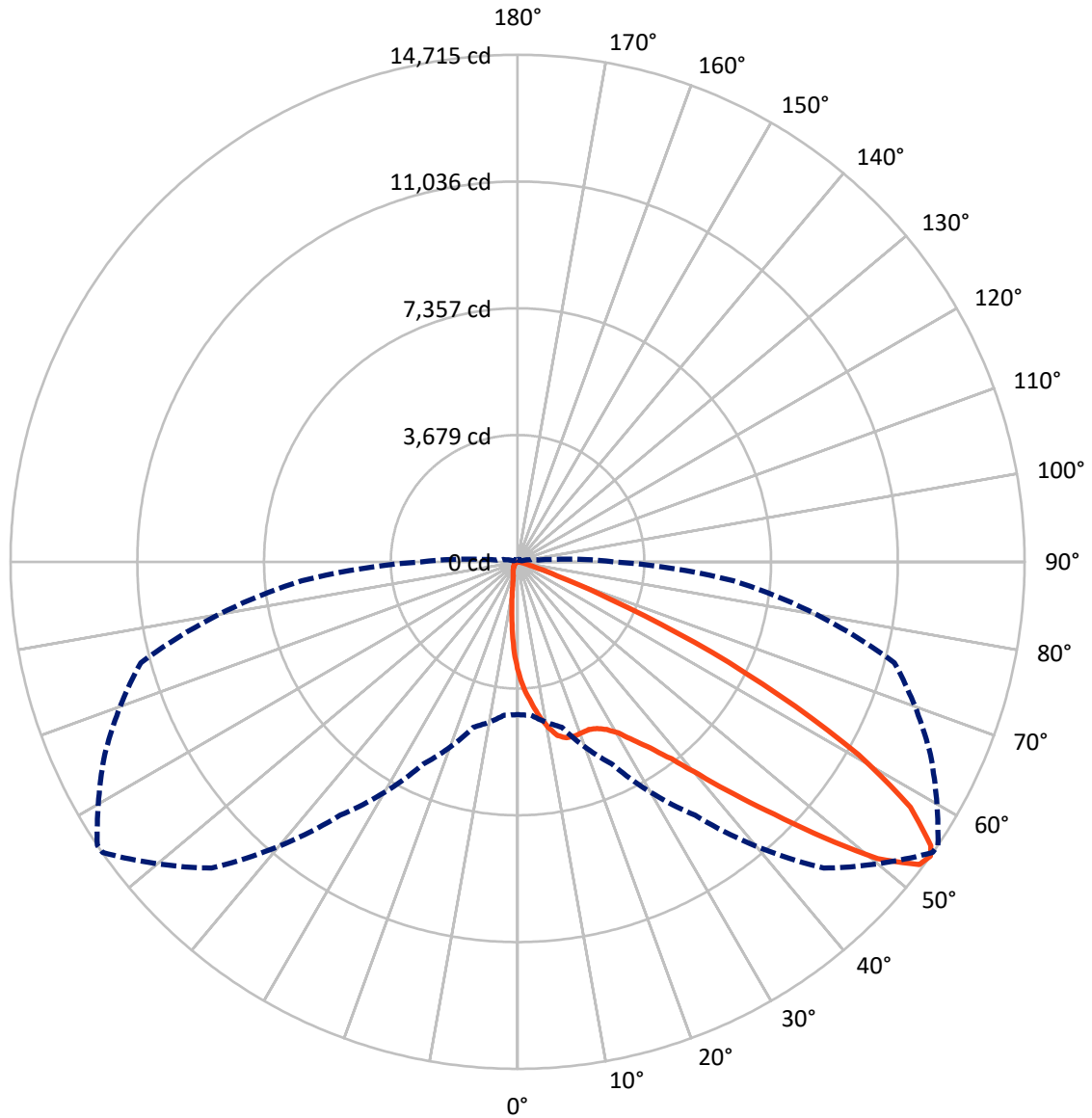
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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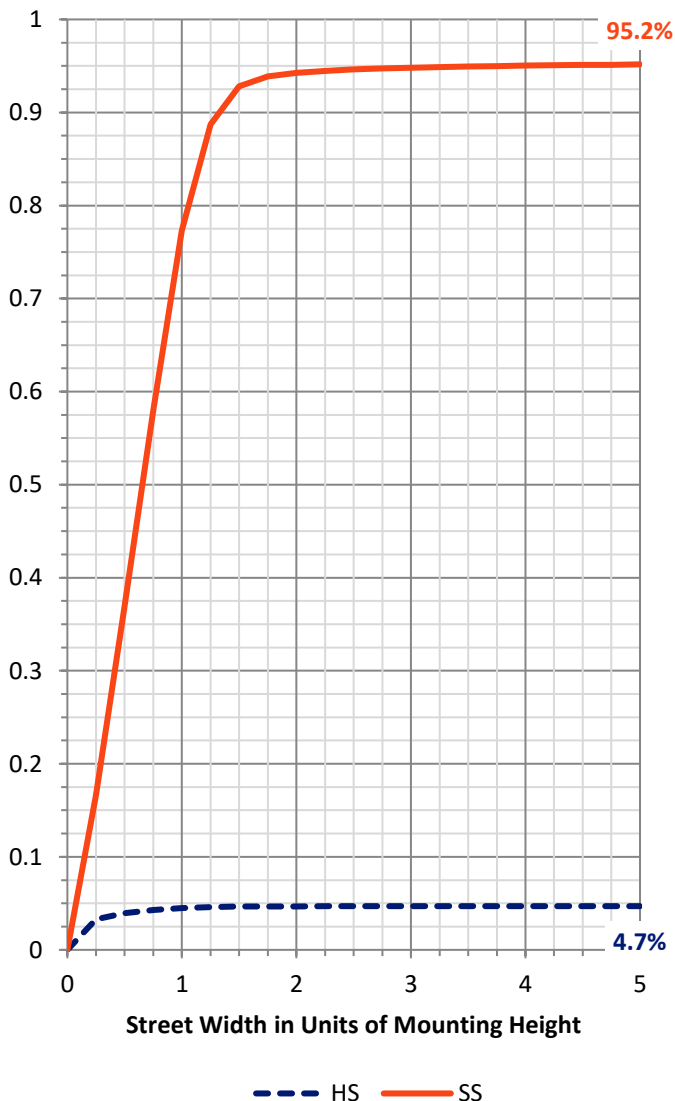
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	682.9	0.0	682.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13758.0	0.0	13758.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	14440.8	0.0	14440.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	2.0
10°-20°	766.4	5.3
20°-30°	1327.4	9.2
30°-40°	2291.2	15.9
40°-50°	3899.8	27.0
50°-60°	3859.3	26.7
60°-70°	1761.5	12.2
70°-80°	226.2	1.6
80°-90°	25.5	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°	14440.8	100.0
0°-180°	14440.8	100.0

Coefficient of Utilization

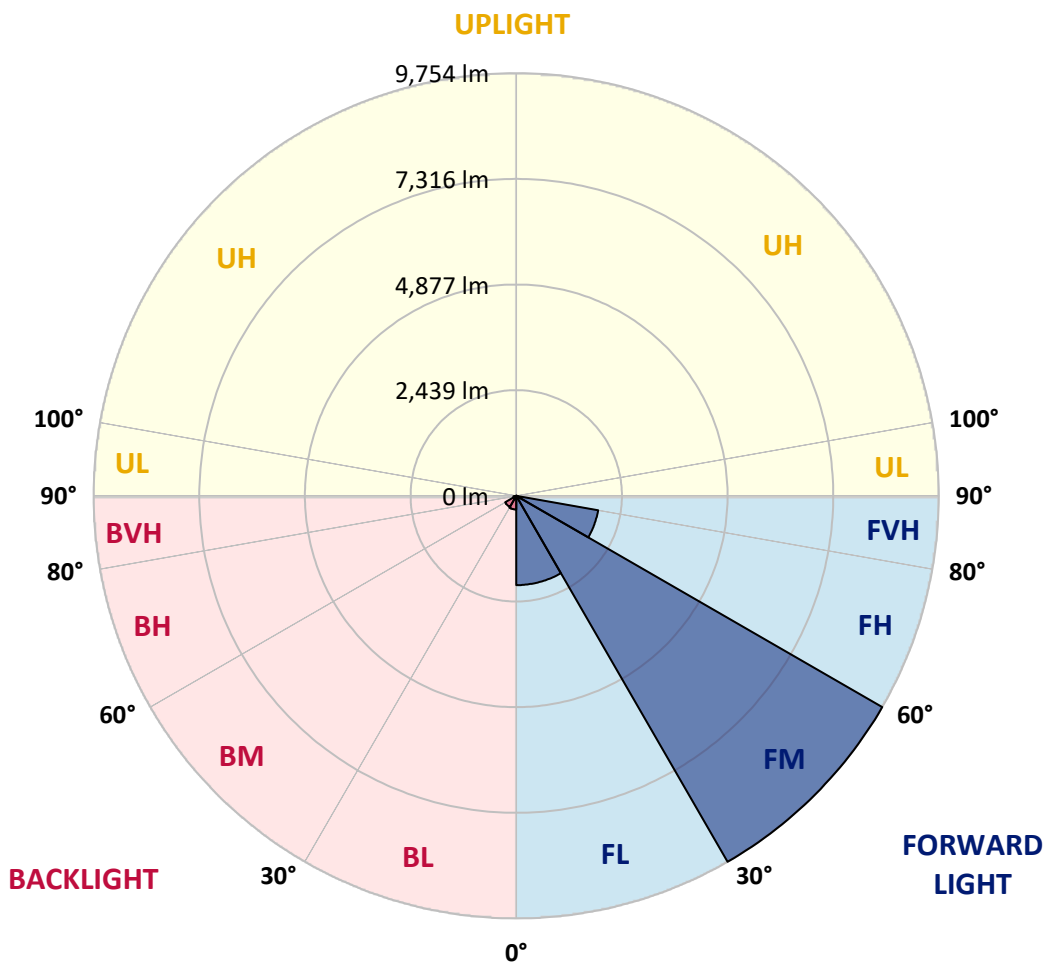


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.5	14.3			
FM (30°-60°)	9754.4	67.5			
FH (60°-80°)	1919.3	13.3			G2/5000
FVH (80°-90°)	22.8	0.2			G1/100
BL (0°-30°)	315.8	2.2	B1/500		
BM (30°-60°)	295.9	2.0	B1/1000		
BH (60°-80°)	68.4	0.5	B0/110		G0/110
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3
2.5°	4077.4	4049.1	4010.2	3980.0	3908.9	3806.6	3698.4	3698.4	3594.2	3449.0	3300.9
5°	4702.9	4684.4	4646.4	4568.5	4488.5	4345.3	4128.1	4090.1	3904.0	3641.0	3364.2
7.5°	4957.2	4965.9	4967.9	4947.5	4909.5	4768.2	4552.8	4526.6	4229.4	3876.7	3447.1
10°	4713.7	4756.5	4798.4	4883.2	5003.0	5037.1	4915.3	4888.0	4595.7	4115.4	3536.7
12.5°	4351.2	4374.5	4398.0	4531.5	4772.1	5047.8	5175.5	5174.5	4927.0	4353.2	3650.7
15°	4182.6	4203.1	4205.0	4264.5	4473.0	4874.4	5286.5	5301.1	5250.5	4646.4	3773.4
17.5°	4217.7	4234.3	4220.6	4235.2	4344.4	4683.4	5273.8	5322.6	5512.6	4928.0	3884.5
20°	4446.7	4478.8	4426.2	4385.3	4418.4	4632.8	5231.0	5299.2	5697.7	5202.7	3985.9
22.5°	4857.8	4875.3	4809.1	4697.1	4638.6	4739.0	5219.3	5286.5	5855.5	5427.8	4044.3
25°	5314.8	5308.9	5235.8	5110.2	4987.4	4953.3	5296.3	5356.7	5986.0	5630.5	4061.8
27.5°	5771.7	5789.3	5666.5	5510.6	5363.5	5274.8	5468.7	5513.5	6133.2	5861.4	4083.3
30°	6302.7	6274.4	6153.6	5975.3	5806.8	5683.0	5746.4	5759.0	6335.8	6167.3	4139.8
32.5°	6993.4	6915.5	6780.1	6468.4	6347.5	6138.0	6153.6	6169.3	6582.3	6470.2	4208.0
35°	7930.8	7926.9	7661.8	7241.9	6947.7	6687.5	6619.3	6632.0	6955.5	6920.4	4359.0
37.5°	9059.0	9074.6	8772.5	8349.7	7808.0	7394.9	7254.6	7256.5	7522.5	7542.0	4588.9
40°	9977.8	10018.6	9838.4	9552.9	9018.0	8372.1	8136.3	8114.9	8319.5	8295.1	4917.2
42.5°	10373.3	10411.3	10478.5	10577.9	10283.7	9750.7	9194.4	9223.7	9286.0	9115.5	5285.6
45°	10179.4	10239.8	10503.9	11117.7	11394.4	11215.1	10551.6	10449.3	10185.3	10007.0	5655.8
47.5°	9371.7	9518.9	9960.2	10982.2	11950.7	12556.7	12083.2	11947.7	11085.5	10657.8	5891.5
50°	8043.8	8052.5	8667.3	9973.9	11662.3	13403.3	13646.9	13545.6	11924.4	11023.2	6010.4
52.5°	5831.2	6023.1	6586.2	8099.3	10413.3	13274.7	14643.6	14601.7	12789.5	11210.2	6181.9
54°	4433.0	4470.1	4970.9	6472.2	8978.1	12568.4	14705.0	14714.8	13219.2	11323.2	6283.2
55°	3634.1	3545.4	4071.6	5513.5	7999.0	11943.9	14504.3	14551.0	13412.1	11381.7	6358.3
57.5°	1722.5	1723.5	2125.9	2908.3	5009.8	9274.3	13277.6	13443.3	13433.5	11482.1	6589.2
60°	872.0	877.8	966.5	1342.6	2474.7	6165.3	10978.4	11372.9	12399.8	11496.6	6665.1
62.5°	609.9	603.1	588.5	646.0	1041.5	3133.3	8173.3	8516.3	10535.0	10940.3	6423.5
65°	522.2	507.6	466.7	457.9	526.1	1248.1	5090.7	5649.9	8043.8	9473.0	5735.6
67.5°	446.2	440.4	403.3	380.9	372.2	543.6	2626.7	2920.9	5497.9	6809.4	4344.4
70°	379.0	376.1	353.7	325.4	301.1	325.4	974.3	1207.2	3064.1	3666.2	2049.9
72.5°	307.9	310.8	314.7	278.7	253.3	230.9	416.0	484.2	1282.2	1310.4	717.1
75°	269.9	266.9	266.9	242.6	211.4	171.5	228.9	246.5	392.7	364.4	166.6
77.5°	190.0	183.1	214.3	199.7	176.3	121.8	130.5	138.4	162.7	139.3	77.9
80°	131.5	131.5	137.3	179.3	158.8	88.6	79.9	85.7	96.5	82.8	44.8
82.5°	74.1	76.0	89.7	95.4	92.6	59.4	52.6	53.6	64.3	56.5	28.3
85°	8.8	14.6	51.6	50.7	38.0	26.3	29.2	30.2	39.9	35.1	16.6
87.5°	0.9	2.0	10.7	13.6	9.7	10.7	10.7	10.7	13.6	15.6	11.7
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°	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3	3208.3
2.5°	3221.0	3147.0	2970.6	2766.0	2635.5	2423.1	2243.8	2114.2	2082.1	2019.7	2038.2
5°	3217.1	3063.2	2703.7	2323.7	1918.4	1616.3	1391.3	1214.0	1136.1	1084.4	1048.4
7.5°	3219.1	2978.4	2401.6	1796.6	1312.4	1016.2	807.7	699.5	627.4	597.3	601.1
10°	3224.9	2882.9	2050.9	1330.9	885.7	656.7	529.1	477.4	453.0	449.1	448.2
12.5°	3238.6	2778.7	1715.7	987.9	619.7	477.4	428.7	411.2	403.3	403.3	400.4
15°	3253.1	2663.7	1437.1	734.6	477.4	410.2	387.7	379.0	374.1	374.1	373.2
17.5°	3253.1	2531.2	1176.9	569.9	411.2	377.0	359.5	347.8	343.9	343.9	343.0
20°	3232.7	2377.3	946.0	458.9	373.2	345.9	328.3	315.7	310.8	308.8	307.9
22.5°	3161.6	2171.7	753.1	394.6	342.0	318.6	296.2	281.6	277.7	275.7	276.7
25°	3034.9	1939.8	596.3	346.9	313.7	285.5	266.0	255.3	251.3	251.3	252.4
27.5°	2904.4	1697.2	472.5	310.8	279.6	254.3	238.7	231.8	230.9	233.8	234.8
30°	2783.6	1453.6	382.9	281.6	249.4	228.0	217.3	215.3	215.3	216.3	217.3
32.5°	2649.1	1240.3	320.6	256.3	225.0	206.6	200.7	200.7	202.6	202.6	204.6
35°	2564.3	1057.1	281.6	231.8	206.6	191.0	187.1	188.1	191.0	194.9	196.8
37.5°	2518.5	910.9	256.3	212.4	189.0	178.3	174.4	176.3	183.1	190.0	191.0
40°	2522.4	800.9	235.8	195.8	175.4	163.6	160.7	166.6	173.4	180.2	181.2
42.5°	2565.3	719.0	216.3	176.3	163.6	147.1	146.1	152.0	154.9	161.8	162.7
45°	2616.0	659.6	195.8	155.9	142.3	127.6	128.6	133.5	137.3	148.1	150.0
47.5°	2631.6	618.6	172.4	132.5	116.9	112.0	113.0	116.0	123.7	133.5	134.4
50°	2649.1	593.4	150.0	112.0	99.4	98.4	99.4	101.3	106.2	110.1	109.2
52.5°	2724.1	592.3	131.5	97.4	84.8	86.7	87.7	86.7	82.8	77.0	75.0
54°	2794.3	595.3	122.8	90.6	77.9	80.9	79.9	75.0	65.3	59.4	56.5
55°	2850.7	598.2	117.9	85.7	74.1	75.0	76.0	66.2	53.6	47.8	45.8
57.5°	2961.9	591.4	106.2	75.0	65.3	61.4	60.4	43.8	29.2	25.4	23.4
60°	2906.3	533.9	96.5	64.3	55.5	49.7	41.0	24.4	14.6	10.7	10.7
62.5°	2688.0	453.0	85.7	52.6	45.8	38.0	21.5	13.6	6.8	3.9	2.9
65°	2404.6	380.9	77.0	41.9	36.0	24.4	11.7	8.8	2.9	0.0	0.0
67.5°	1787.8	282.5	65.3	33.1	27.2	15.6	7.8	4.9	0.9	0.0	0.0
70°	828.2	172.4	55.5	25.4	19.5	11.7	5.9	2.9	0.0	0.0	0.0
72.5°	237.7	108.1	45.8	18.5	13.6	9.7	4.9	2.0	0.9	0.0	0.0
75°	82.8	86.7	34.1	13.6	10.7	6.8	3.9	2.0	0.9	0.0	0.0
77.5°	49.7	70.2	21.5	11.7	8.8	5.9	3.9	2.0	0.9	0.9	0.0
80°	28.3	46.7	13.6	9.7	7.8	4.9	2.9	2.0	0.9	0.9	0.0
82.5°	15.6	22.4	10.7	8.8	6.8	4.9	2.9	2.0	0.9	0.9	0.9
85°	12.7	11.7	8.8	7.8	5.9	3.9	2.9	0.9	0.0	0.0	0.0
87.5°	9.7	7.8	7.8	7.8	5.9	3.9	2.9	0.9	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)