

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: P324930

Luminaire Tested: **GLEON-SA6C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 25458 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

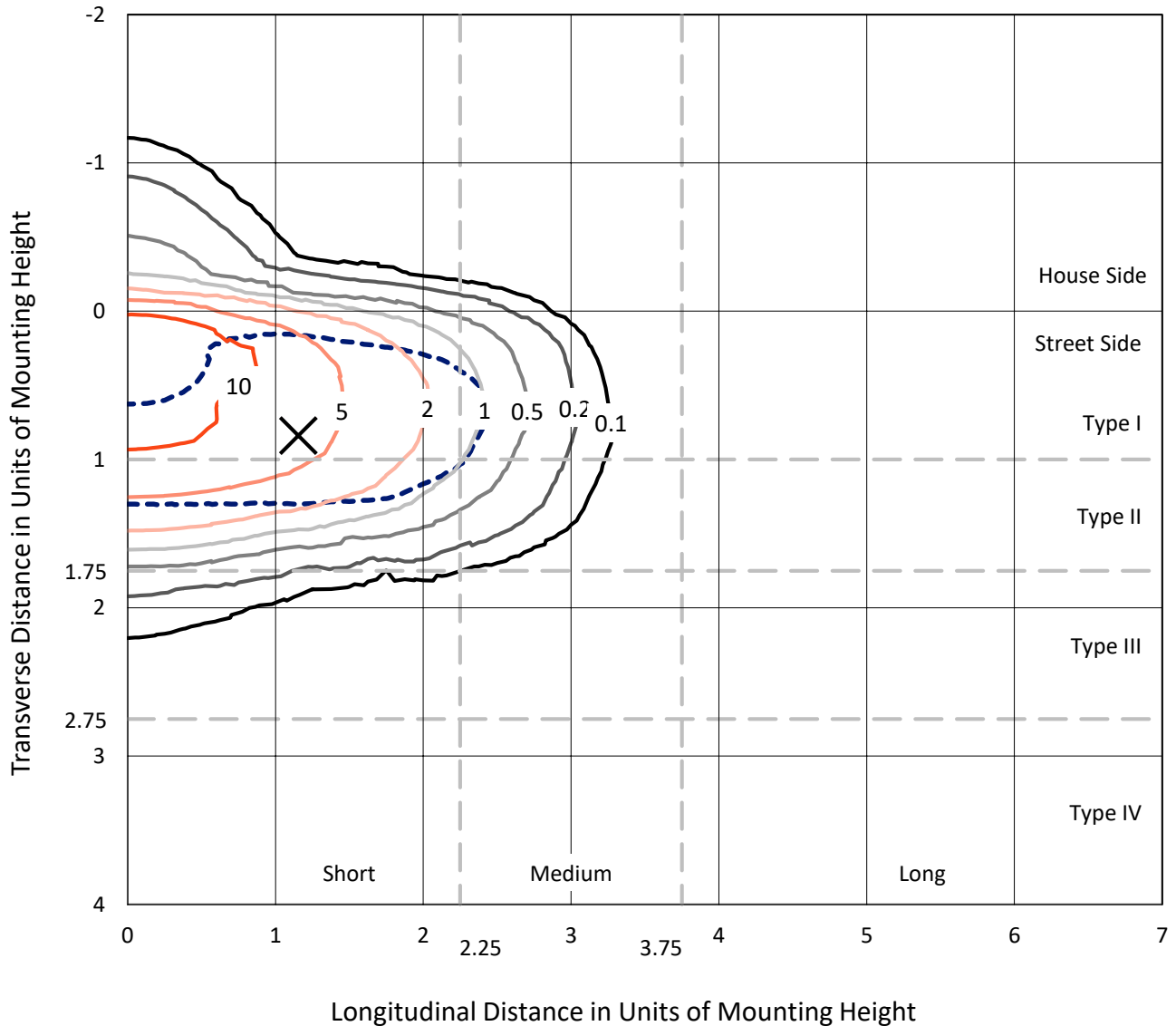
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

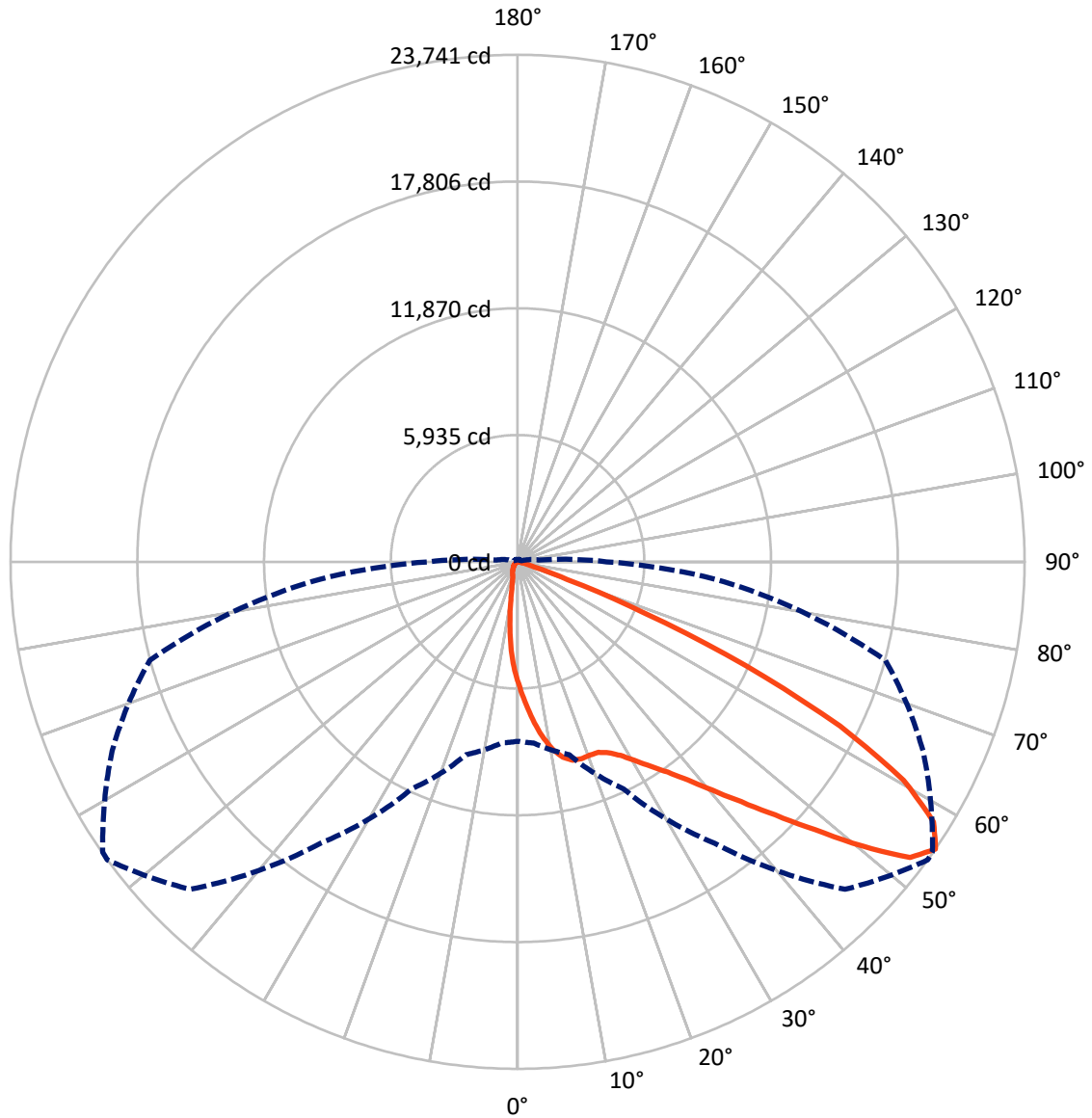
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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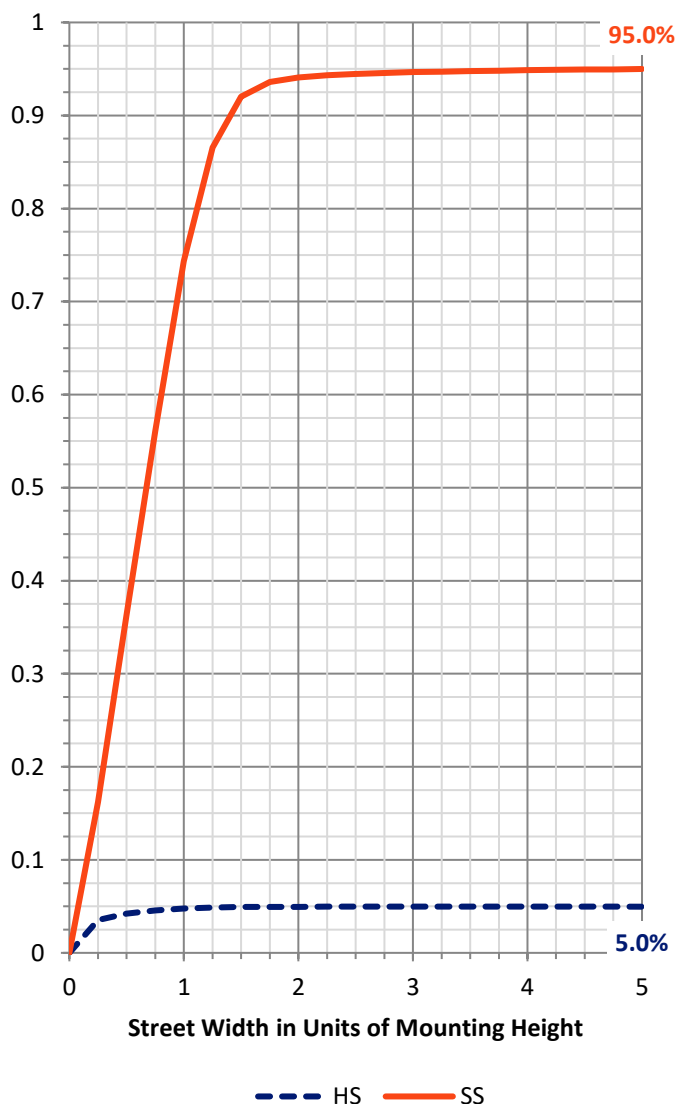
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.2	0.0	1270.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24187.8	0.0	24187.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	25458.0	0.0	25458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	2.1
10°-20°	1440.0	5.7
20°-30°	2458.5	9.7
30°-40°	3945.5	15.5
40°-50°	6304.9	24.8
50°-60°	6755.8	26.5
60°-70°	3468.7	13.6
70°-80°	525.4	2.1
80°-90°	34.2	0.1
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°	25458.0	100.0
0°-180°	25458.0	100.0

Coefficient of Utilization



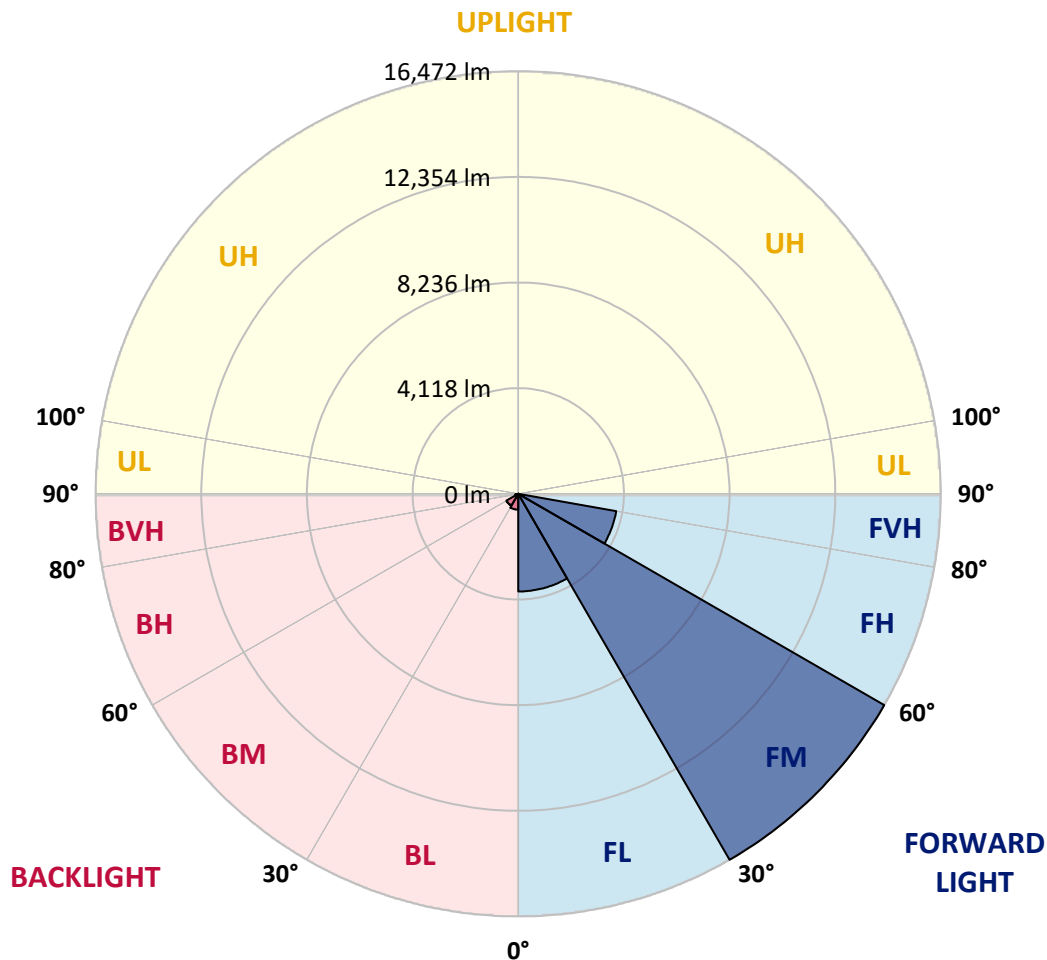
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3805.5	14.9			
FM (30°-60°)	16472.4	64.7			
FH (60°-80°)	3877.0	15.2			G2/5000
FVH (80°-90°)	32.8	0.1			G1/100
BL (0°-30°)	618.0	2.4	B2/1000		
BM (30°-60°)	533.7	2.1	B1/1000		
BH (60°-80°)	117.1	0.5	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6
2.5°	7155.0	7048.4	7051.7	7003.3	6826.3	6687.7	6543.7	6509.6	6285.4	6050.1	5823.6
5°	8391.8	8313.8	8295.1	8201.6	7955.4	7694.8	7415.6	7350.7	6912.0	6430.5	5956.6
7.5°	9027.3	9028.4	9013.0	8978.9	8825.0	8572.1	8231.3	8163.2	7566.2	6843.9	6095.2
10°	8842.6	8884.4	8970.1	9083.4	9201.0	9169.1	8913.0	8851.4	8202.7	7281.4	6249.1
12.5°	8411.6	8417.1	8512.8	8698.6	9037.2	9384.6	9389.0	9368.1	8810.7	7738.8	6418.4
15°	8197.2	8218.1	8253.3	8373.2	8694.2	9250.5	9648.5	9678.2	9368.1	8224.7	6598.7
17.5°	8338.0	8367.7	8338.0	8352.3	8538.1	9038.3	9693.5	9769.4	9855.2	8705.2	6769.1
20°	8719.5	8747.0	8694.2	8635.9	8672.2	8976.7	9661.7	9763.9	10236.7	9131.7	6912.0
22.5°	9234.0	9245.0	9164.7	9069.1	9042.7	9185.6	9688.1	9793.6	10542.3	9517.6	7002.2
25°	9800.2	9810.1	9710.0	9600.1	9537.4	9595.7	9904.6	9983.8	10811.7	9885.9	7053.9
27.5°	10417.0	10425.8	10300.4	10165.2	10092.6	10094.8	10261.9	10346.6	11098.6	10305.9	7095.6
30°	11068.9	11064.5	10949.1	10761.1	10668.7	10666.5	10776.5	10862.2	11514.2	10844.6	7152.8
32.5°	11801.1	11792.3	11628.5	11395.4	11291.0	11306.4	11404.2	11453.7	12029.8	11418.5	7255.0
35°	12765.3	12740.0	12492.7	12203.5	12011.1	12005.6	12088.1	12127.7	12687.3	12113.4	7425.5
37.5°	14016.5	13993.4	13658.0	13238.1	12967.6	12866.5	12964.3	13014.9	13625.1	13005.0	7699.2
40°	15250.0	15226.9	15027.9	14643.1	14226.4	13983.5	14060.4	14114.3	14795.9	14086.8	8044.4
42.5°	16100.9	16120.7	16190.0	16221.9	15831.6	15321.5	15356.6	15412.7	16026.2	15243.4	8439.1
45°	16325.2	16368.1	16759.5	17528.0	17674.2	17276.2	16907.9	16938.7	17276.2	16400.0	8833.8
47.5°	15651.3	15730.4	16485.7	17915.0	19152.9	19434.4	18737.3	18696.7	18475.7	17335.6	9114.2
50°	14119.8	14192.4	15170.8	17285.0	19601.5	21494.7	20929.6	20809.7	19527.8	17895.2	9213.1
52.5°	11903.4	11991.3	12786.2	15301.7	18756.0	22413.8	23005.3	22905.2	20299.6	17939.2	9229.6
55°	8406.1	8512.8	9353.8	11727.5	16076.8	21682.7	23740.8	23711.1	20940.6	17822.6	9264.8
57.5°	4724.2	4801.1	5708.2	7517.8	11774.7	18885.8	22972.3	23169.1	21327.6	17620.3	9317.5
60°	2097.7	2118.6	2588.0	3742.4	6893.3	14433.1	20772.4	21104.4	20995.5	17349.9	9406.6
62.5°	1163.2	1145.6	1145.6	1555.7	2995.9	8935.0	16938.7	17487.3	19578.4	17030.0	9411.0
65°	911.4	894.9	847.6	854.2	1141.2	3965.6	11729.7	12704.8	16887.0	16092.1	9094.4
67.5°	772.9	758.6	711.3	692.6	709.1	1308.3	6444.8	7457.3	12813.7	13654.7	7877.3
70°	653.1	643.2	619.0	595.9	554.1	646.5	2466.0	3154.2	7896.0	9083.4	5377.2
72.5°	525.5	521.1	529.9	510.1	459.6	431.0	843.3	1021.4	3546.7	4053.5	2215.3
75°	453.0	450.8	455.2	435.4	378.2	300.1	428.8	468.4	1000.5	991.7	448.6
77.5°	294.6	297.9	377.1	368.3	325.4	200.1	222.1	239.7	303.4	227.6	136.3
80°	188.0	185.8	191.3	305.6	292.4	152.8	111.0	116.5	146.2	112.1	66.0
82.5°	114.3	112.1	125.3	142.9	147.3	106.6	68.2	69.3	91.3	72.6	35.2
85°	9.9	13.2	75.9	70.4	50.6	33.0	33.0	35.2	48.4	42.9	19.8
87.5°	0.0	0.0	13.2	19.8	11.0	12.1	12.1	13.2	18.7	18.7	9.9
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°	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6	5701.6
2.5°	5706.0	5591.6	5360.8	5138.7	4950.7	4769.3	4562.6	4358.1	4262.4	4224.0	4184.4
5°	5715.9	5480.6	5004.5	4525.2	4028.3	3580.8	3199.3	2807.9	2612.2	2526.5	2486.9
7.5°	5729.1	5370.6	4601.1	3796.3	2995.9	2389.0	1859.1	1518.3	1371.0	1347.9	1290.7
10°	5731.3	5237.6	4132.7	2991.5	2008.6	1440.2	1108.2	932.3	867.4	856.4	837.8
12.5°	5735.7	5080.4	3612.7	2215.3	1339.1	963.1	801.5	743.2	725.6	724.5	724.5
15°	5748.8	4915.5	3072.9	1596.4	962.0	763.0	703.6	680.5	673.9	677.2	676.1
17.5°	5748.8	4720.9	2542.9	1189.6	777.3	686.0	653.1	637.7	635.5	638.8	639.9
20°	5707.1	4484.5	2057.0	925.7	689.3	636.6	606.9	592.6	587.1	589.3	590.4
22.5°	5607.0	4194.3	1661.2	766.3	631.1	591.5	559.6	537.6	528.8	529.9	529.9
25°	5450.9	3850.2	1299.5	662.9	583.8	543.1	505.7	480.4	474.9	473.8	476.0
27.5°	5250.8	3469.8	1034.6	583.8	527.7	489.2	451.9	431.0	426.6	427.7	428.8
30°	5054.0	3075.1	815.8	516.7	465.1	428.8	400.2	390.3	390.3	393.6	394.7
32.5°	4873.7	2695.8	645.4	458.5	409.0	376.0	359.5	358.4	363.9	366.1	367.2
35°	4718.7	2345.1	534.3	413.4	365.0	336.4	330.9	335.3	341.9	346.3	347.4
37.5°	4608.8	2031.7	467.3	376.0	330.9	307.8	306.7	315.5	324.3	334.2	336.4
40°	4562.6	1766.8	421.1	343.0	303.4	285.8	282.5	294.6	311.1	325.4	327.6
42.5°	4524.1	1550.2	381.5	311.1	281.5	256.2	255.1	270.5	290.2	304.5	307.8
45°	4491.1	1376.5	345.2	277.1	252.9	219.9	223.2	243.0	258.4	273.8	277.1
47.5°	4422.9	1233.5	305.6	240.8	208.9	188.0	194.6	212.2	224.3	247.4	250.7
50°	4300.9	1117.0	265.0	196.8	170.4	162.7	172.6	184.7	200.1	219.9	222.1
52.5°	4218.5	1029.1	229.8	164.9	140.7	142.9	152.8	157.2	166.0	173.7	171.5
55°	4171.2	980.7	201.2	142.9	119.8	126.4	128.6	123.1	118.7	111.0	107.7
57.5°	4165.7	936.7	179.2	124.2	105.5	108.8	101.1	82.5	67.1	58.3	56.1
60°	4156.9	882.8	161.6	104.4	93.5	89.1	72.6	45.1	31.9	29.7	29.7
62.5°	4061.2	799.3	148.4	88.0	79.2	67.1	41.8	20.9	17.6	18.7	18.7
65°	3756.7	682.7	135.2	71.5	62.7	48.4	20.9	12.1	6.6	7.7	7.7
67.5°	3193.8	544.2	120.9	55.0	47.3	30.8	12.1	5.5	0.0	0.0	0.0
70°	2138.4	337.5	102.2	38.5	30.8	18.7	8.8	1.1	0.0	0.0	0.0
72.5°	820.2	182.5	82.5	23.1	19.8	13.2	5.5	0.0	0.0	0.0	0.0
75°	184.7	119.8	57.2	16.5	14.3	8.8	2.2	0.0	0.0	0.0	0.0
77.5°	70.4	86.9	33.0	11.0	9.9	5.5	0.0	0.0	0.0	0.0	0.0
80°	34.1	51.7	15.4	6.6	5.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	19.8	6.6	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.9	9.9	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	3.3	1.1	1.1	0.0	0.0	0.0	0.0	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)