

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: P455210

Luminaire Tested: **GALN-SA6B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455210
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 20323 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

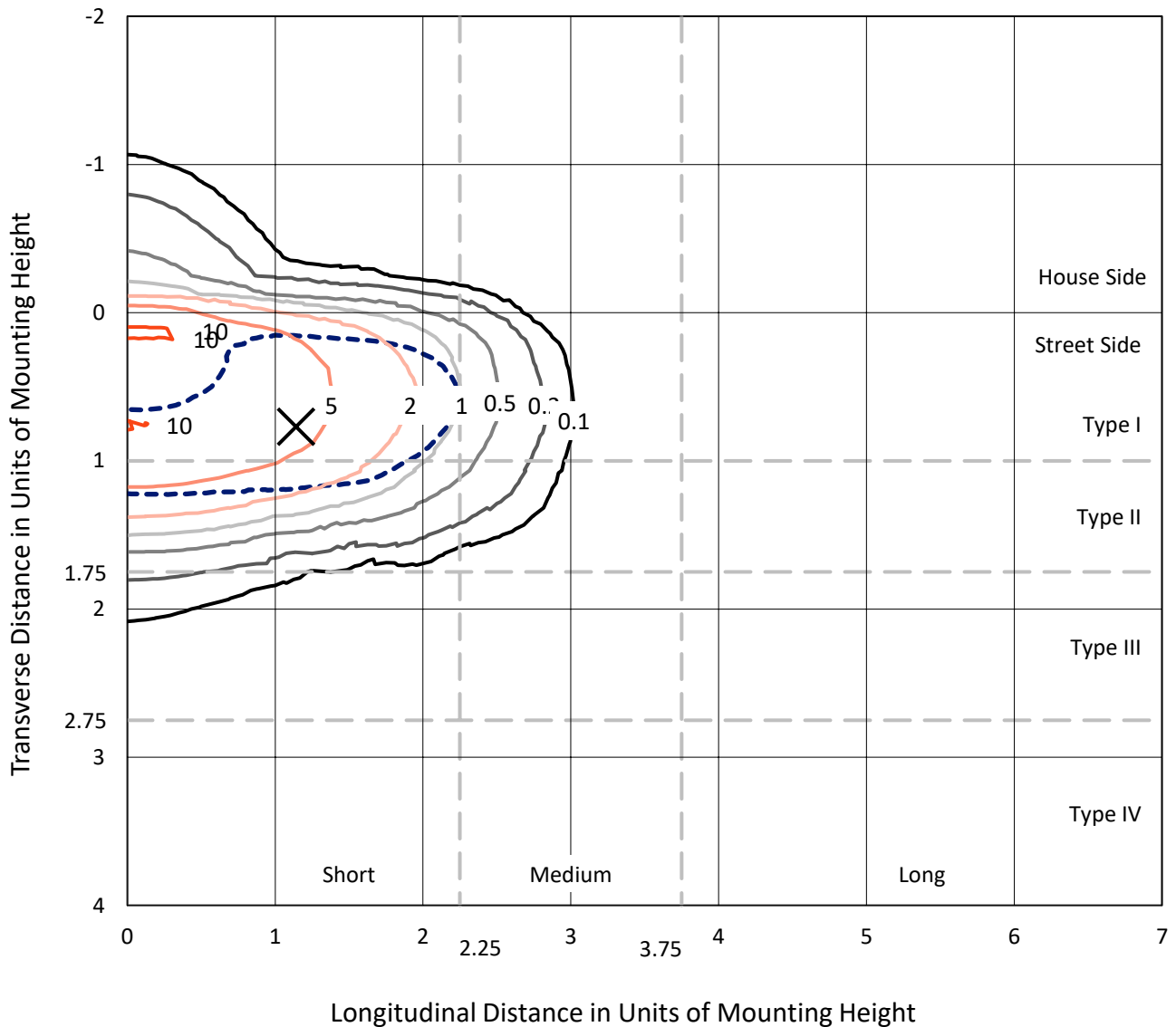
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

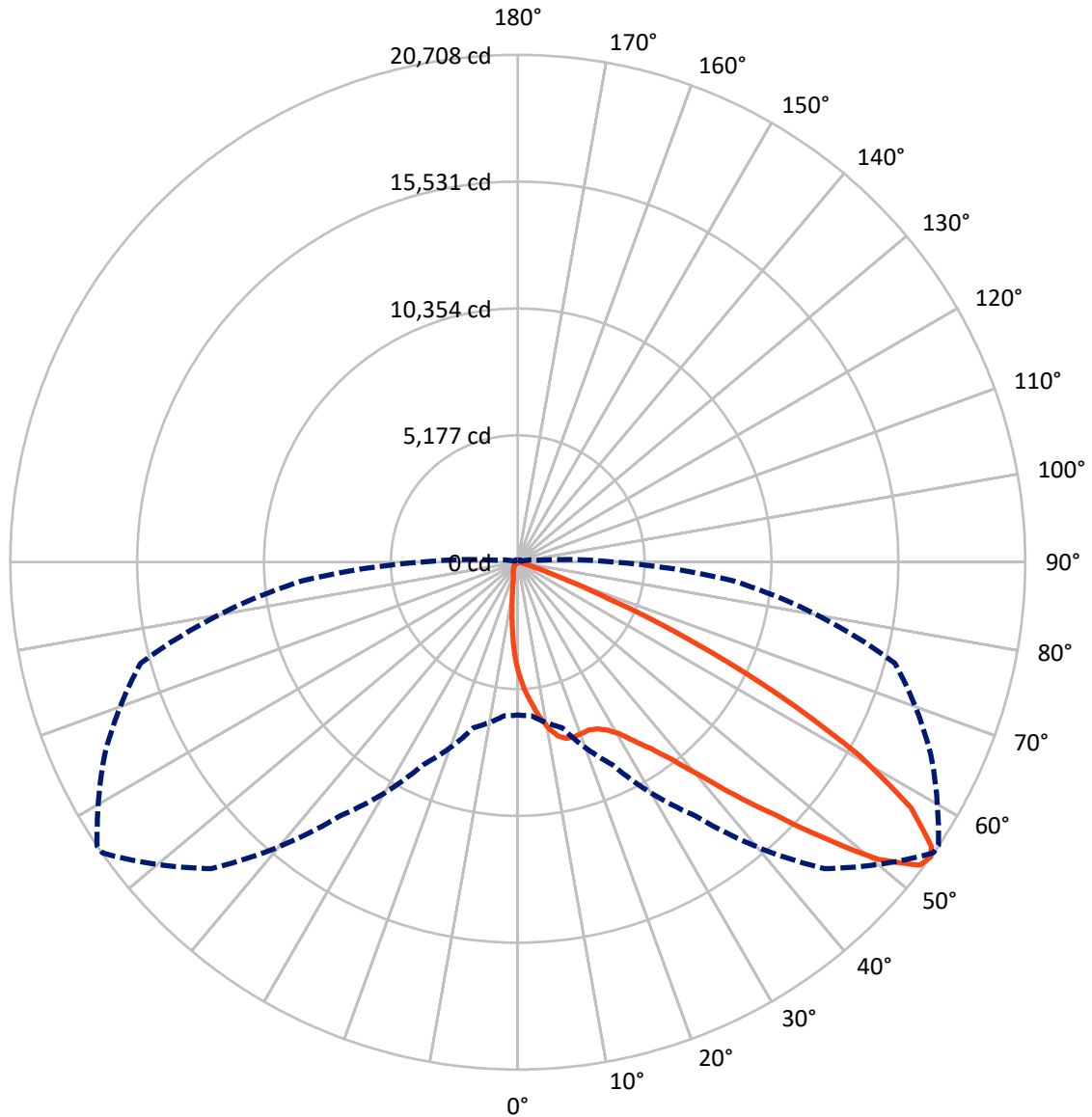
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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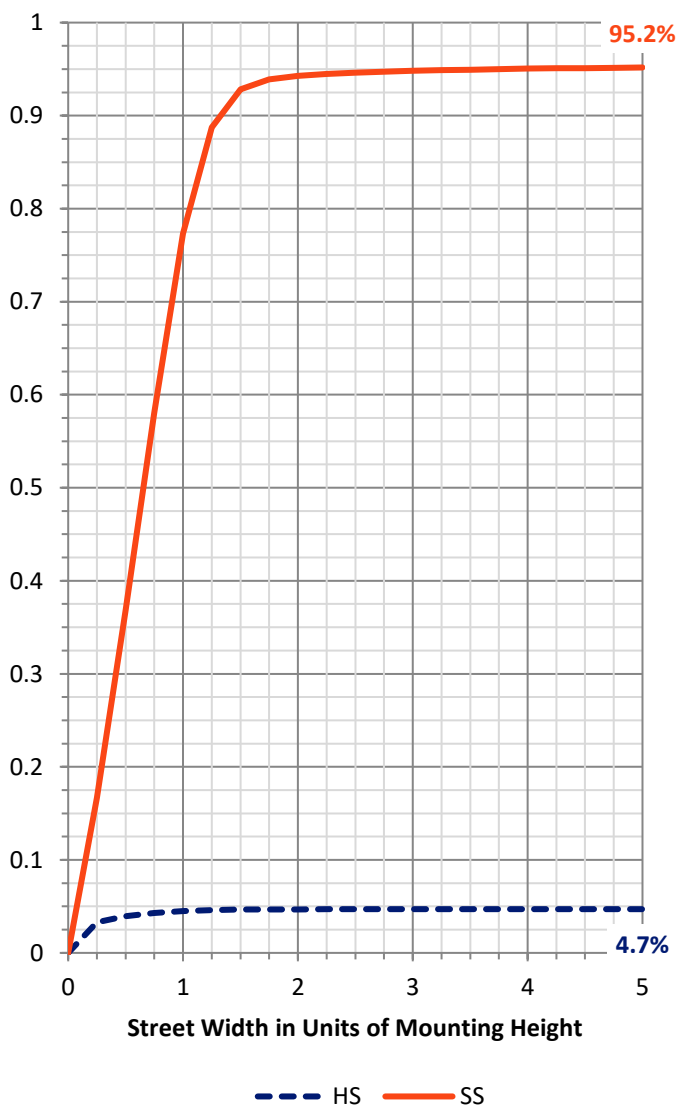
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.0	0.0	961.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19362.0	0.0	19362.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	20323.0	0.0	20323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	2.0
10°-20°	1078.6	5.3
20°-30°	1868.0	9.2
30°-40°	3224.5	15.9
40°-50°	5488.3	27.0
50°-60°	5431.3	26.7
60°-70°	2479.0	12.2
70°-80°	318.4	1.6
80°-90°	35.9	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°	20323.0	100.0
0°-180°	20323.0	100.0

Coefficient of Utilization



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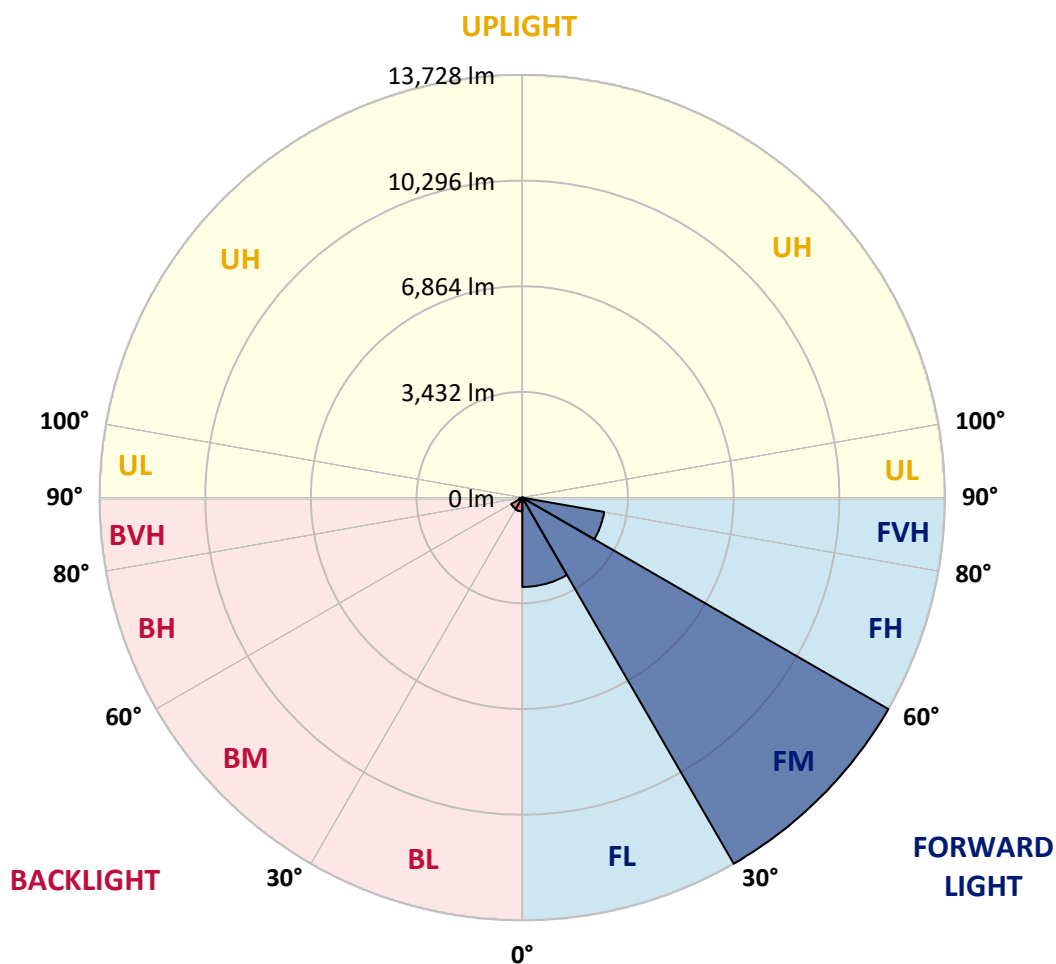
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2901.2	14.3			
FM (30°-60°)	13727.7	67.5			
FH (60°-80°)	2701.1	13.3			G2/5000
FVH (80°-90°)	32.0	0.2			G1/100
BL (0°-30°)	444.5	2.2	B1/500		
BM (30°-60°)	416.5	2.0	B1/1000		
BH (60°-80°)	96.2	0.5	B0/110		G0/110
BVH (80°-90°)	3.8	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°	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2
2.5°	5738.2	5698.5	5643.6	5601.1	5501.0	5357.1	5204.9	5204.9	5058.2	4853.9	4645.4
5°	6618.5	6592.5	6539.0	6429.3	6316.9	6115.3	5809.5	5756.1	5494.2	5124.0	4734.6
7.5°	6976.4	6988.7	6991.5	6962.7	6909.2	6710.4	6407.4	6370.3	5952.1	5455.8	4851.1
10°	6633.6	6693.9	6752.9	6872.2	7040.8	7088.8	6917.4	6879.0	6467.7	5791.7	4977.3
12.5°	6123.5	6156.4	6189.4	6377.2	6715.9	7103.9	7283.5	7282.2	6933.9	6126.3	5137.7
15°	5886.3	5915.1	5917.9	6001.5	6294.9	6859.8	7439.8	7460.4	7389.1	6539.0	5310.5
17.5°	5935.7	5959.0	5939.8	5960.4	6113.9	6591.1	7422.0	7490.6	7757.9	6935.3	5466.8
20°	6257.9	6303.2	6229.1	6171.5	6218.2	6519.8	7361.7	7457.7	8018.5	7321.9	5609.4
22.5°	6836.5	6861.2	6768.0	6610.3	6528.0	6669.3	7345.2	7439.8	8240.6	7638.7	5691.6
25°	7479.6	7471.4	7368.5	7191.7	7018.9	6970.9	7453.6	7538.6	8424.3	7923.9	5716.3
27.5°	8122.7	8147.4	7974.6	7755.2	7548.2	7423.4	7696.2	7759.3	8631.4	8248.8	5746.5
30°	8869.9	8830.2	8660.2	8409.2	8172.0	7997.9	8087.0	8104.8	8916.6	8679.4	5826.0
32.5°	9842.1	9732.4	9541.8	9103.0	8933.0	8638.2	8660.2	8682.1	9263.5	9105.8	5922.0
35°	11161.1	11155.7	10782.7	10191.7	9777.6	9411.6	9315.6	9333.4	9788.6	9739.3	6134.5
37.5°	12748.9	12770.9	12345.8	11750.7	10988.4	10407.0	10209.6	10212.3	10586.6	10614.0	6458.1
40°	14041.9	14099.5	13845.8	13444.1	12691.3	11782.3	11450.4	11420.3	11708.2	11673.9	6920.2
42.5°	14598.6	14652.1	14746.7	14886.5	14472.5	13722.4	12939.5	12980.6	13068.4	12828.4	7438.5
45°	14325.7	14410.8	14782.3	15646.2	16035.6	15783.3	14849.5	14705.5	14334.0	14083.0	7959.5
47.5°	13189.1	13396.1	14017.2	15455.6	16818.5	17671.3	17005.0	16814.4	15600.9	14999.0	8291.3
50°	11320.2	11332.5	12197.7	14036.4	16412.6	18862.9	19205.7	19063.1	16781.5	15513.2	8458.6
52.5°	8206.3	8476.4	9269.0	11398.3	14654.8	18681.9	20608.3	20549.4	17999.0	15776.4	8699.9
54°	6238.7	6290.8	6995.6	9108.5	12635.1	17687.8	20694.7	20708.4	18603.7	15935.5	8842.5
55°	5114.4	4989.6	5730.0	7759.3	11257.1	16808.9	20412.3	20478.1	18875.2	16017.7	8948.1
57.5°	2424.2	2425.6	2991.8	4092.9	7050.4	13051.9	18686.0	18919.1	18905.4	16159.0	9273.1
60°	1227.2	1235.4	1360.2	1889.4	3482.7	8676.6	15450.1	16005.4	17450.6	16179.5	9380.0
62.5°	858.3	848.7	828.2	909.1	1465.8	4409.6	11502.6	11985.2	14826.2	15396.6	9040.0
65°	734.9	714.4	656.8	644.4	740.4	1756.4	7164.2	7951.3	11320.2	13331.7	8071.9
67.5°	628.0	619.8	567.7	536.1	523.8	765.1	3696.6	4110.7	7737.4	9582.9	6113.9
70°	533.4	529.3	497.7	458.0	423.7	458.0	1371.1	1698.9	4312.3	5159.6	2884.9
72.5°	433.3	437.4	442.9	392.1	356.5	325.0	585.5	681.5	1804.4	1844.2	1009.2
75°	379.8	375.7	375.7	341.4	297.5	241.3	322.2	346.9	552.6	512.8	234.5
77.5°	267.4	257.8	301.7	281.1	248.2	171.4	183.7	194.7	229.0	196.1	109.7
80°	185.1	185.1	193.3	252.3	223.5	124.8	112.4	120.7	135.7	116.5	63.1
82.5°	104.2	106.9	126.1	134.4	130.3	83.6	74.0	75.4	90.5	79.5	39.8
85°	12.3	20.6	72.7	71.3	53.5	37.0	41.1	42.5	56.2	49.4	23.3
87.5°	1.4	2.7	15.1	19.2	13.7	15.1	15.1	15.1	19.2	21.9	16.5
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°	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2	4515.2
2.5°	4533.0	4428.8	4180.6	3892.7	3709.0	3410.0	3157.8	2975.4	2930.1	2842.4	2868.4
5°	4527.5	4310.9	3804.9	3270.2	2699.8	2274.7	1958.0	1708.4	1598.8	1526.1	1475.4
7.5°	4530.3	4191.6	3379.9	2528.4	1846.9	1430.1	1136.7	984.5	883.0	840.5	846.0
10°	4538.5	4057.2	2886.3	1873.0	1246.4	924.2	744.5	671.9	637.6	632.1	630.7
12.5°	4557.7	3910.5	2414.6	1390.3	872.0	671.9	603.3	578.6	567.7	567.7	563.5
15°	4578.3	3748.7	2022.4	1033.8	671.9	577.3	545.7	533.4	526.5	526.5	525.1
17.5°	4578.3	3562.2	1656.3	802.1	578.6	530.6	506.0	489.5	484.0	484.0	482.6
20°	4549.5	3345.6	1331.4	645.8	525.1	486.8	462.1	444.3	437.4	434.7	433.3
22.5°	4449.4	3056.3	1059.9	555.3	481.3	448.4	416.8	396.3	390.8	388.0	389.4
25°	4271.1	2730.0	839.1	488.1	441.5	401.7	374.3	359.2	353.8	353.8	355.1
27.5°	4087.4	2388.5	665.0	437.4	393.5	357.9	335.9	326.3	325.0	329.1	330.4
30°	3917.4	2045.8	538.9	396.3	351.0	320.8	305.8	303.0	303.0	304.4	305.8
32.5°	3728.1	1745.5	451.1	360.6	316.7	290.7	282.5	282.5	285.2	285.2	287.9
35°	3608.9	1487.7	396.3	326.3	290.7	268.7	263.3	264.6	268.7	274.2	277.0
37.5°	3544.4	1282.0	360.6	298.9	266.0	250.9	245.4	248.2	257.8	267.4	268.7
40°	3549.9	1127.1	331.8	275.6	246.8	230.4	226.2	234.5	244.1	253.7	255.0
42.5°	3610.2	1011.9	304.4	248.2	230.4	207.0	205.7	213.9	218.0	227.6	229.0
45°	3681.5	928.3	275.6	219.4	200.2	179.6	181.0	187.8	193.3	208.4	211.2
47.5°	3703.5	870.7	242.7	186.5	164.5	157.7	159.1	163.2	174.1	187.8	189.2
50°	3728.1	835.0	211.2	157.7	139.9	138.5	139.9	142.6	149.5	154.9	153.6
52.5°	3833.7	833.7	185.1	137.1	119.3	122.0	123.4	122.0	116.5	108.3	105.6
54°	3932.4	837.8	172.8	127.5	109.7	113.8	112.4	105.6	91.9	83.6	79.5
55°	4012.0	841.9	165.9	120.7	104.2	105.6	106.9	93.2	75.4	67.2	64.4
57.5°	4168.3	832.3	149.5	105.6	91.9	86.4	85.0	61.7	41.1	35.6	32.9
60°	4090.1	751.4	135.7	90.5	78.2	69.9	57.6	34.3	20.6	15.1	15.1
62.5°	3783.0	637.6	120.7	74.0	64.4	53.5	30.2	19.2	9.6	5.5	4.1
65°	3384.0	536.1	108.3	59.0	50.7	34.3	16.5	12.3	4.1	0.0	0.0
67.5°	2516.1	397.6	91.9	46.6	38.4	21.9	11.0	6.9	1.4	0.0	0.0
70°	1165.5	242.7	78.2	35.6	27.4	16.5	8.2	4.1	0.0	0.0	0.0
72.5°	334.6	152.2	64.4	26.1	19.2	13.7	6.9	2.7	1.4	0.0	0.0
75°	116.5	122.0	48.0	19.2	15.1	9.6	5.5	2.7	1.4	0.0	0.0
77.5°	69.9	98.7	30.2	16.5	12.3	8.2	5.5	2.7	1.4	1.4	0.0
80°	39.8	65.8	19.2	13.7	11.0	6.9	4.1	2.7	1.4	1.4	0.0
82.5°	21.9	31.5	15.1	12.3	9.6	6.9	4.1	2.7	1.4	1.4	1.4
85°	17.8	16.5	12.3	11.0	8.2	5.5	4.1	1.4	0.0	0.0	0.0
87.5°	13.7	11.0	11.0	11.0	8.2	5.5	4.1	1.4	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)