

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: P455094

Luminaire Tested: **GALN-SA6B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455094
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-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 25177 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

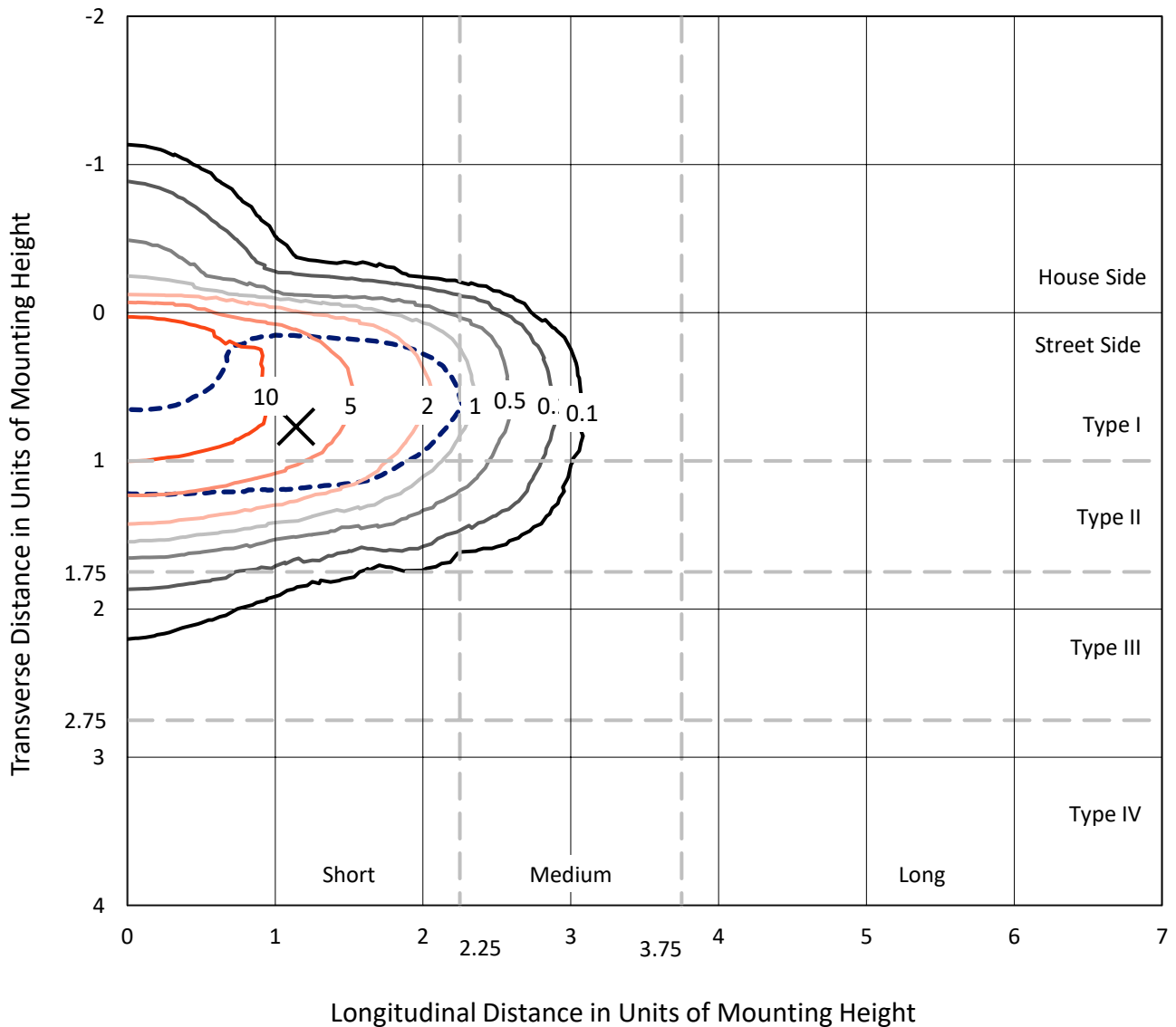
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455094
 CATALOG NUMBER: GALN-SA6B-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

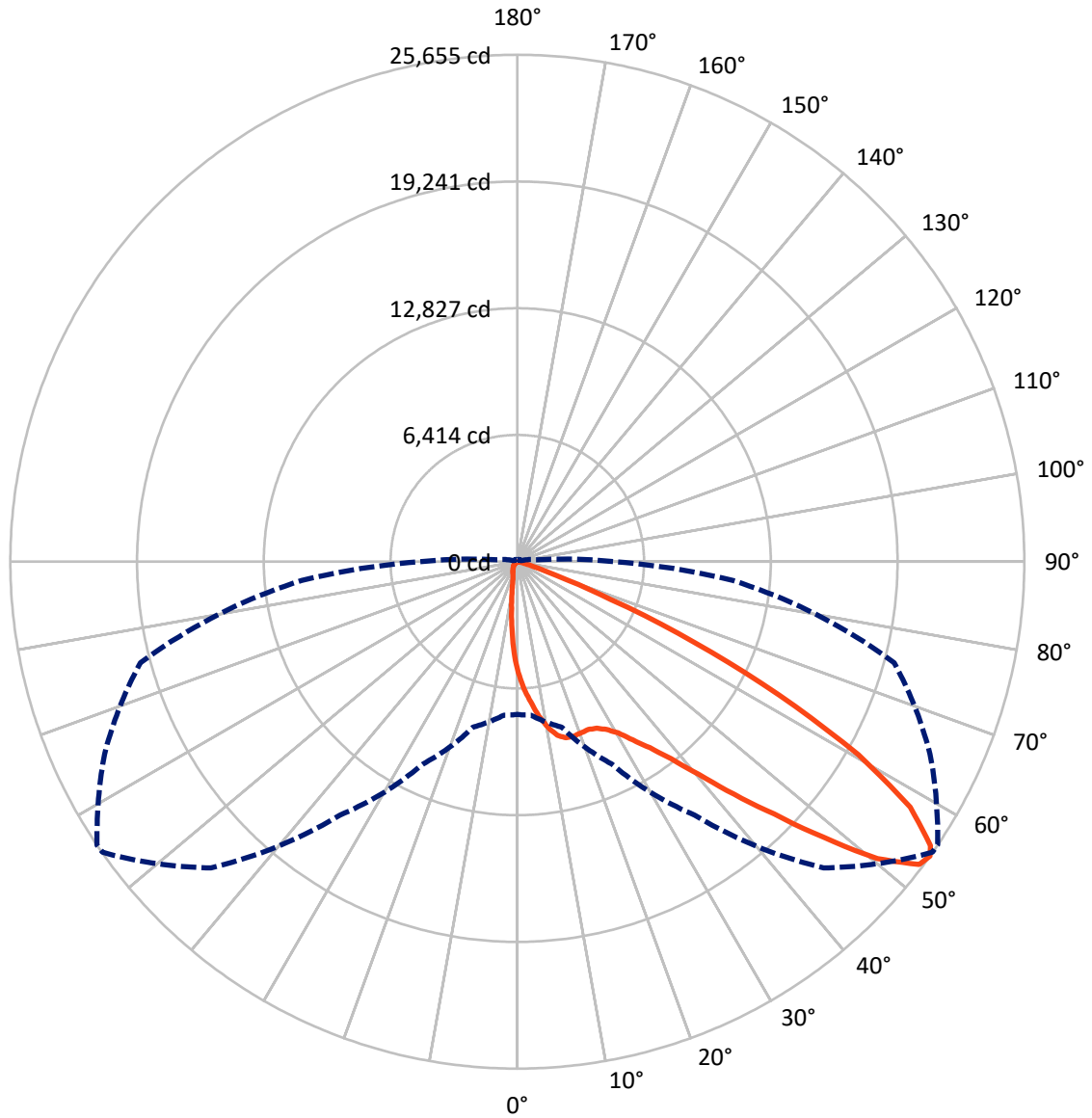
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P455094
CATALOG NUMBER: GALN-SA6B-730-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



REPORT NUMBER: P455094

CATALOG NUMBER: GALN-SA6B-730-U-AFL-HSS

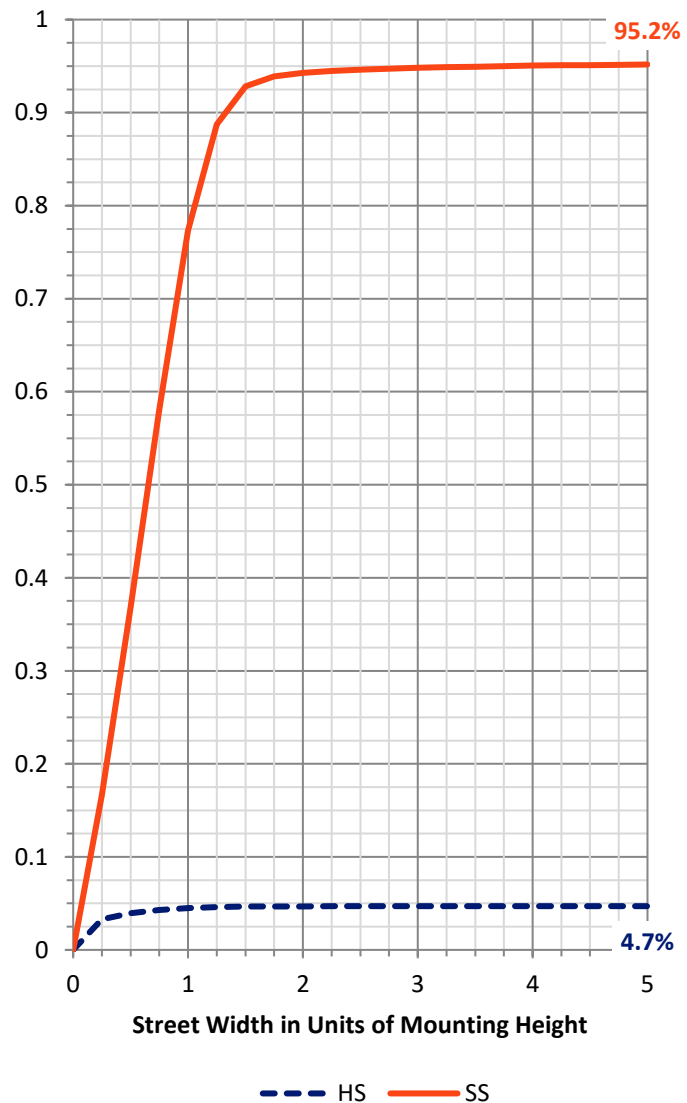
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.6	0.0	1190.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23986.4	0.0	23986.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	25177.0	0.0	25177.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.3	2.0
10°-20°	1336.2	5.3
20°-30°	2314.2	9.2
30°-40°	3994.7	15.9
40°-50°	6799.1	27.0
50°-60°	6728.6	26.7
60°-70°	3071.1	12.2
70°-80°	394.4	1.6
80°-90°	44.5	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°	25177.0	100.0
0°-180°	25177.0	100.0

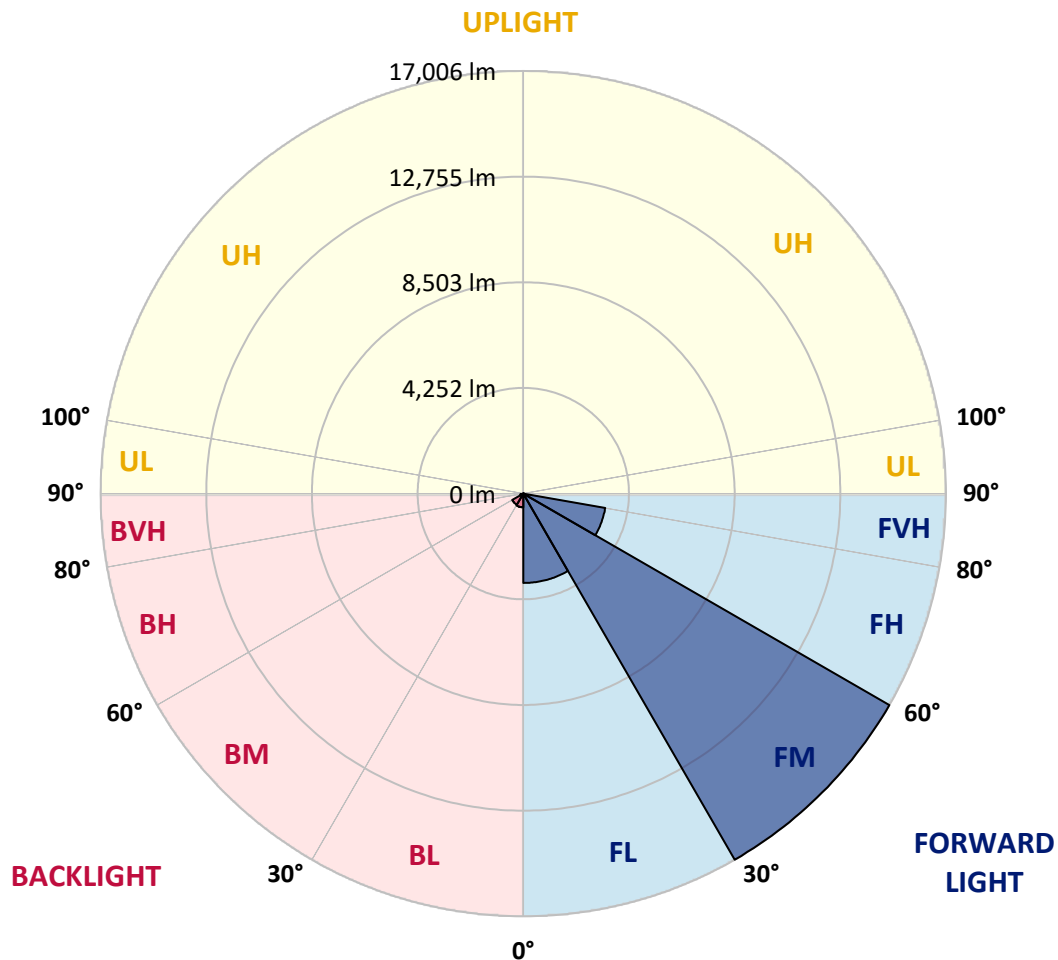


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3594.1	14.3			
FM (30°-60°)	17006.4	67.5			
FH (60°-80°)	3346.2	13.3			G2/5000
FVH (80°-90°)	39.7	0.2			G1/100
BL (0°-30°)	550.6	2.2	B2/1000		
BM (30°-60°)	516.0	2.0	B1/1000		
BH (60°-80°)	119.2	0.5	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P455094

CATALOG NUMBER: GALN-SA6B-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6
2.5°	7108.8	7059.5	6991.6	6938.9	6814.9	6636.6	6448.0	6448.0	6266.3	6013.2	5755.0
5°	8199.3	8167.0	8100.8	7964.9	7825.6	7575.9	7197.1	7130.9	6806.4	6347.8	5865.4
7.5°	8642.7	8657.9	8661.3	8625.7	8559.4	8313.1	7937.7	7891.9	7373.8	6758.9	6009.8
10°	8218.0	8292.7	8365.8	8513.6	8722.5	8781.9	8569.6	8522.1	8012.5	7175.0	6166.0
12.5°	7586.1	7626.9	7667.6	7900.4	8319.9	8800.6	9023.2	9021.5	8590.0	7589.5	6364.8
15°	7292.2	7327.9	7331.3	7434.9	7798.4	8498.3	9216.8	9242.3	9153.9	8100.8	6578.8
17.5°	7353.4	7382.3	7358.5	7384.0	7574.2	8165.3	9194.7	9279.6	9610.9	8591.7	6772.5
20°	7752.6	7808.6	7716.9	7645.6	7703.3	8077.0	9120.0	9238.9	9933.6	9070.7	6949.1
22.5°	8469.4	8500.0	8384.5	8189.1	8087.2	8262.2	9099.6	9216.8	10208.8	9463.1	7051.0
25°	9266.1	9255.9	9128.5	8909.3	8695.3	8635.9	9233.8	9339.1	10436.4	9816.4	7081.6
27.5°	10062.7	10093.3	9879.3	9607.5	9351.0	9196.4	9534.4	9612.6	10692.9	10219.0	7119.0
30°	10988.5	10939.2	10728.6	10417.7	10123.9	9908.1	10018.6	10040.6	11046.2	10752.4	7217.5
32.5°	12192.8	12056.9	11820.8	11277.2	11066.6	10701.4	10728.6	10755.8	11476.0	11280.6	7336.4
35°	13826.9	13820.1	13358.1	12626.0	12113.0	11659.4	11540.5	11562.6	12126.6	12065.4	7599.7
37.5°	15793.9	15821.1	15294.5	14557.3	13612.9	12892.6	12648.0	12651.4	13115.2	13149.1	8000.6
40°	17395.7	17467.1	17152.8	16655.1	15722.6	14596.4	14185.3	14147.9	14504.6	14462.2	8573.0
42.5°	18085.4	18151.6	18268.8	18442.1	17929.1	16999.9	16030.0	16081.0	16189.7	15892.4	9215.1
45°	17747.3	17852.7	18313.0	19383.1	19865.5	19553.0	18396.2	18217.9	17757.5	17446.7	9860.6
47.5°	16339.2	16595.7	17365.1	19147.0	20835.5	21892.0	21066.5	20830.4	19327.1	18581.4	10271.6
50°	14023.9	14039.2	15111.1	17388.9	20332.7	23368.1	23792.8	23616.1	20789.6	19218.4	10478.9
52.5°	10166.3	10501.0	11482.8	14120.8	18155.0	23143.9	25530.5	25457.4	22298.0	19544.5	10777.8
54°	7728.8	7793.3	8666.4	11284.0	15652.9	21912.4	25637.5	25654.5	23047.1	19741.5	10954.5
55°	6335.9	6181.3	7098.6	9612.6	13945.8	20823.6	25287.6	25369.1	23383.4	19843.5	11085.3
57.5°	3003.2	3004.9	3706.4	5070.4	8734.4	16169.3	23149.0	23437.8	23420.8	20018.4	11487.9
60°	1520.3	1530.5	1685.0	2340.7	4314.5	10749.0	19140.2	19828.2	21618.5	20043.9	11620.4
62.5°	1063.3	1051.5	1026.0	1126.2	1815.8	5462.8	14249.9	14847.8	18367.3	19074.0	11199.1
65°	910.5	885.0	813.6	798.4	917.3	2176.0	8875.4	9850.4	14023.9	16515.8	9999.9
67.5°	778.0	767.8	703.2	664.2	648.9	947.8	4579.5	5092.5	9585.4	11871.8	7574.2
70°	660.8	655.7	616.6	567.3	524.9	567.3	1698.6	2104.6	5342.2	6392.0	3573.9
72.5°	536.8	541.9	548.7	485.8	441.6	402.6	725.3	844.2	2235.4	2284.7	1250.2
75°	470.5	465.4	465.4	423.0	368.6	299.0	399.2	429.8	684.5	635.3	290.5
77.5°	331.2	319.3	373.7	348.2	307.5	212.3	227.6	241.2	283.7	242.9	135.9
80°	229.3	229.3	239.5	312.5	276.9	154.6	139.3	149.5	168.2	144.4	78.1
82.5°	129.1	132.5	156.3	166.5	161.4	103.6	91.7	93.4	112.1	98.5	49.3
85°	15.3	25.5	90.0	88.3	66.2	45.9	51.0	52.7	69.6	61.2	28.9
87.5°	1.7	3.4	18.7	23.8	17.0	18.7	18.7	18.7	23.8	27.2	20.4
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°	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6	5593.6
2.5°	5615.7	5486.6	5179.1	4822.4	4594.8	4224.5	3912.0	3686.0	3630.0	3521.3	3553.5
5°	5608.9	5340.5	4713.7	4051.2	3344.6	2818.0	2425.7	2116.5	1980.6	1890.6	1827.7
7.5°	5612.3	5192.7	4187.1	3132.3	2288.1	1771.7	1408.2	1219.6	1093.9	1041.3	1048.1
10°	5622.5	5026.3	3575.6	2320.3	1544.1	1144.9	922.4	832.3	789.9	783.1	781.4
12.5°	5646.3	4844.5	2991.3	1722.4	1080.3	832.3	747.4	716.8	703.2	703.2	698.1
15°	5671.7	4644.1	2505.5	1280.8	832.3	715.1	676.1	660.8	652.3	652.3	650.6
17.5°	5671.7	4413.1	2052.0	993.7	716.8	657.4	626.8	606.4	599.6	599.6	597.9
20°	5636.1	4144.7	1649.4	800.1	650.6	603.0	572.4	550.4	541.9	538.5	536.8
22.5°	5512.1	3786.3	1313.0	687.9	596.2	555.5	516.4	490.9	484.1	480.7	482.4
25°	5291.2	3382.0	1039.6	604.7	547.0	497.7	463.7	445.0	438.2	438.2	439.9
27.5°	5063.6	2959.0	823.8	541.9	487.5	443.3	416.2	404.3	402.6	407.7	409.4
30°	4853.0	2534.4	667.6	490.9	434.9	397.5	378.8	375.4	375.4	377.1	378.8
32.5°	4618.6	2162.4	558.9	446.7	392.4	360.1	349.9	349.9	353.3	353.3	356.7
35°	4470.8	1843.0	490.9	404.3	360.1	332.9	326.1	327.8	332.9	339.7	343.1
37.5°	4391.0	1588.2	446.7	370.3	329.5	310.9	304.1	307.5	319.3	331.2	332.9
40°	4397.8	1396.3	411.1	341.4	305.8	285.4	280.3	290.5	302.4	314.2	315.9
42.5°	4472.5	1253.6	377.1	307.5	285.4	256.5	254.8	265.0	270.1	282.0	283.7
45°	4560.8	1150.0	341.4	271.8	248.0	222.5	224.2	232.7	239.5	258.2	261.6
47.5°	4588.0	1078.6	300.7	231.0	203.8	195.3	197.0	202.1	215.7	232.7	234.4
50°	4618.6	1034.5	261.6	195.3	173.3	171.6	173.3	176.7	185.2	191.9	190.2
52.5°	4749.4	1032.8	229.3	169.9	147.8	151.2	152.9	151.2	144.4	134.2	130.8
54°	4871.7	1037.9	214.0	158.0	135.9	141.0	139.3	130.8	113.8	103.6	98.5
55°	4970.2	1043.0	205.5	149.5	129.1	130.8	132.5	115.5	93.4	83.2	79.8
57.5°	5163.9	1031.1	185.2	130.8	113.8	107.0	105.3	76.4	51.0	44.2	40.8
60°	5067.0	930.9	168.2	112.1	96.8	86.6	71.3	42.5	25.5	18.7	18.7
62.5°	4686.5	789.9	149.5	91.7	79.8	66.2	37.4	23.8	11.9	6.8	5.1
65°	4192.2	664.2	134.2	73.0	62.8	42.5	20.4	15.3	5.1	0.0	0.0
67.5°	3117.0	492.6	113.8	57.8	47.6	27.2	13.6	8.5	1.7	0.0	0.0
70°	1443.8	300.7	96.8	44.2	34.0	20.4	10.2	5.1	0.0	0.0	0.0
72.5°	414.5	188.5	79.8	32.3	23.8	17.0	8.5	3.4	1.7	0.0	0.0
75°	144.4	151.2	59.5	23.8	18.7	11.9	6.8	3.4	1.7	0.0	0.0
77.5°	86.6	122.3	37.4	20.4	15.3	10.2	6.8	3.4	1.7	1.7	0.0
80°	49.3	81.5	23.8	17.0	13.6	8.5	5.1	3.4	1.7	1.7	0.0
82.5°	27.2	39.1	18.7	15.3	11.9	8.5	5.1	3.4	1.7	1.7	1.7
85°	22.1	20.4	15.3	13.6	10.2	6.8	5.1	1.7	0.0	0.0	0.0
87.5°	17.0	13.6	13.6	13.6	10.2	6.8	5.1	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)