

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: P456022

Luminaire Tested: **GALN-SA7B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456022
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-SA7B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29572 lumens
Efficiency: N/A
Efficacy: 103.4 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

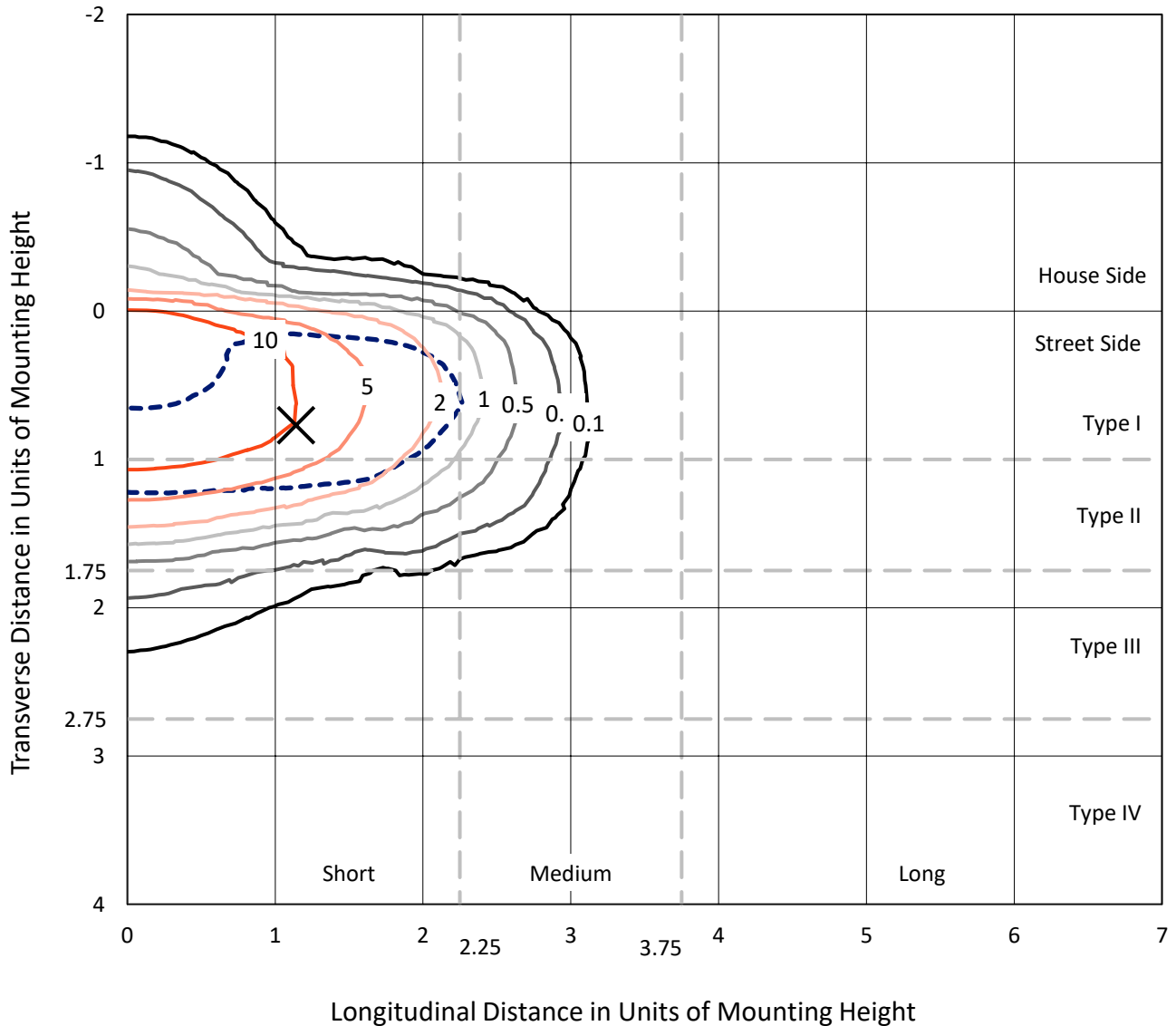
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

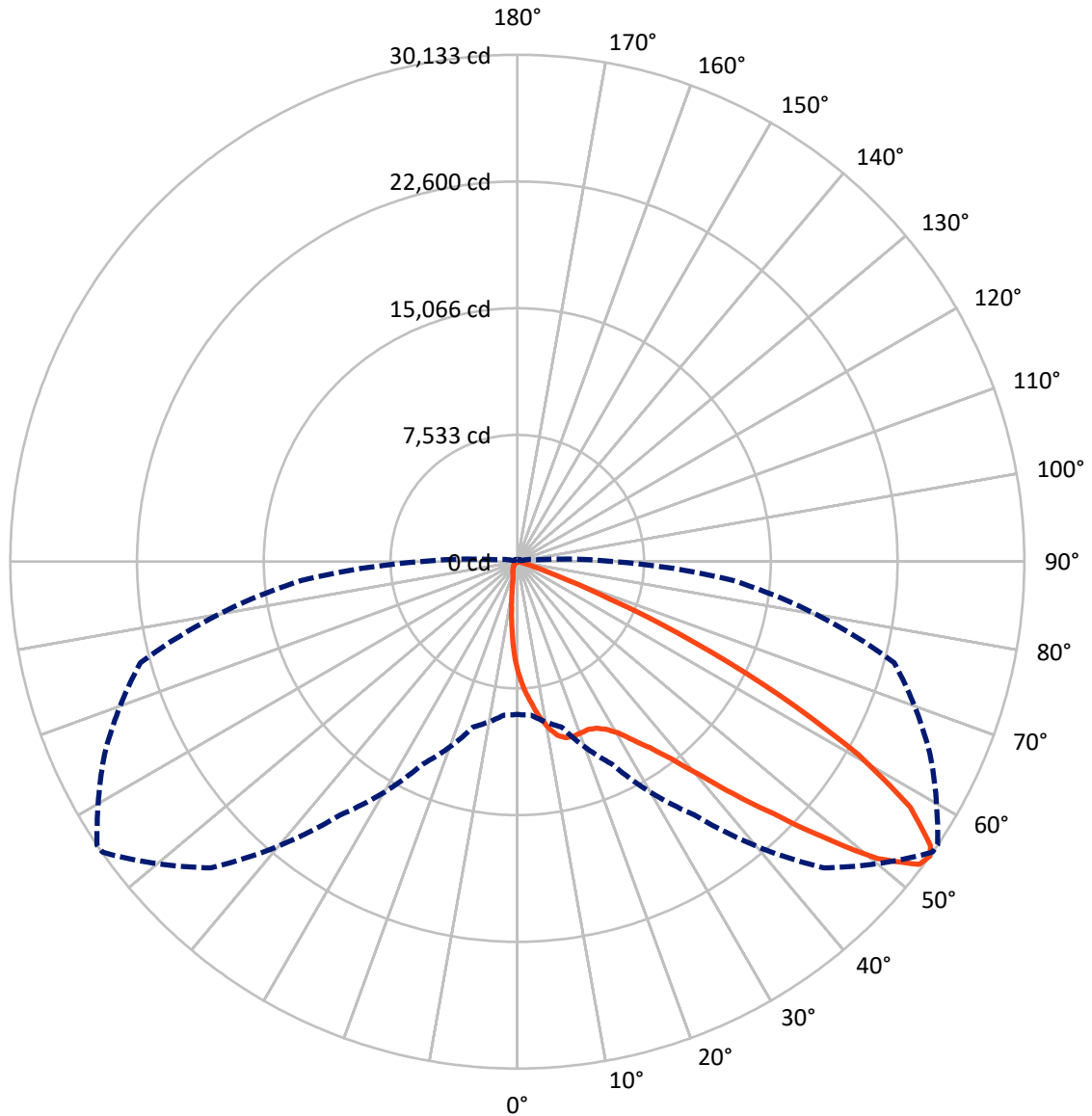
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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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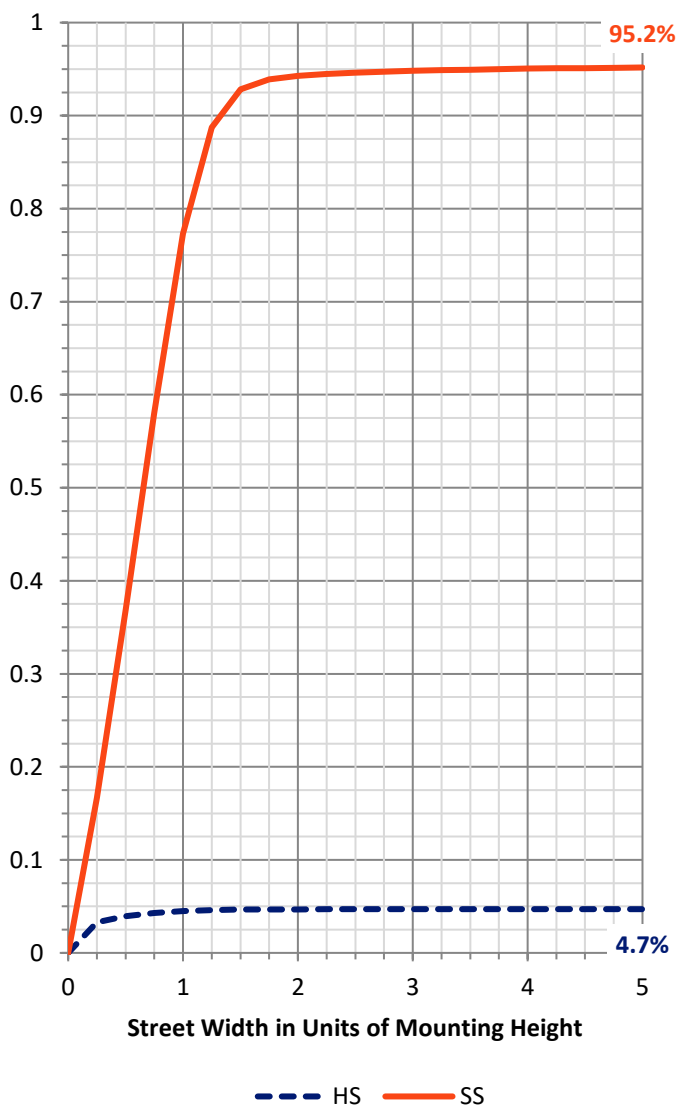
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.4	0.0	1398.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	28173.6	0.0	28173.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	29572.0	0.0	29572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	2.0
10°-20°	1569.5	5.3
20°-30°	2718.2	9.2
30°-40°	4692.0	15.9
40°-50°	7986.0	27.0
50°-60°	7903.1	26.7
60°-70°	3607.2	12.2
70°-80°	463.2	1.6
80°-90°	52.2	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°	29572.0	100.0
0°-180°	29572.0	100.0

Coefficient of Utilization



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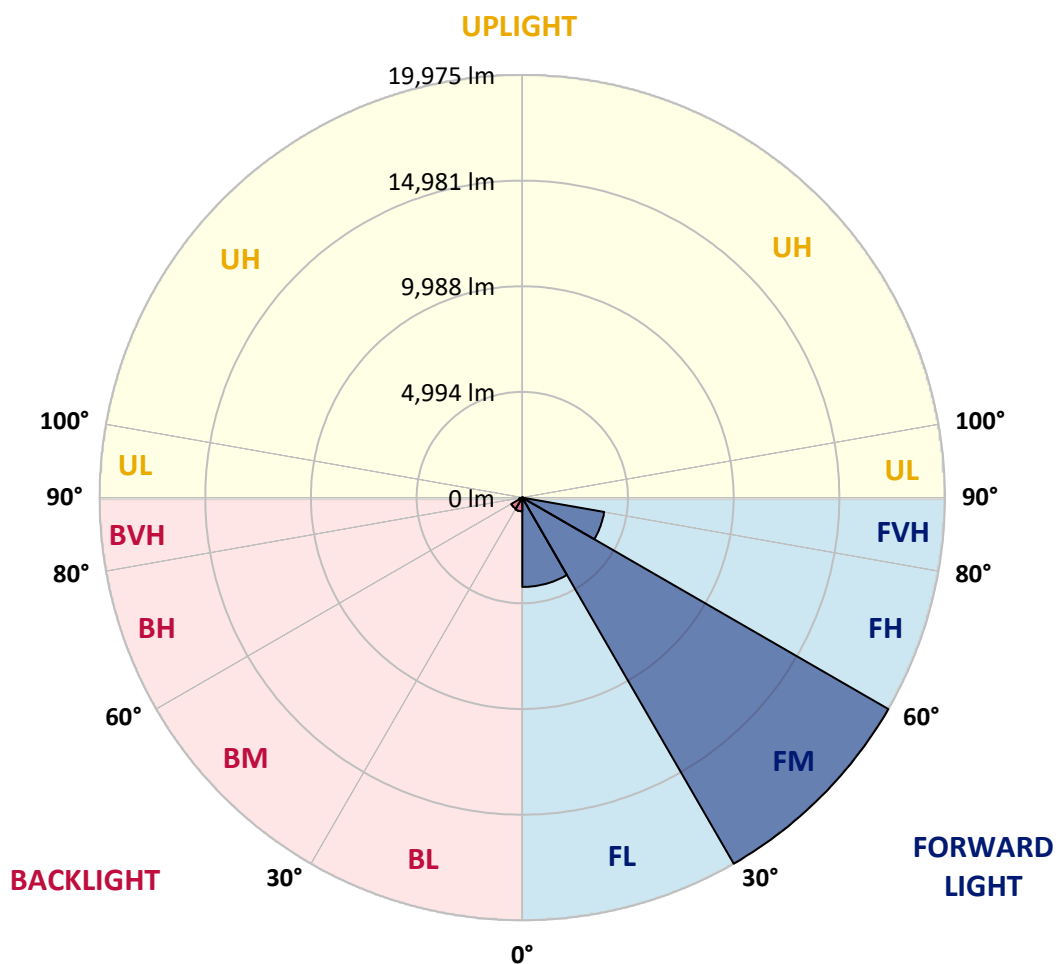
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4221.5	14.3			
FM (30°-60°)	19975.1	67.5			
FH (60°-80°)	3930.4	13.3			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	646.7	2.2	B2/1000		
BM (30°-60°)	606.0	2.0	B1/1000		
BH (60°-80°)	140.0	0.5	B1/500		G1/500
BVH (80°-90°)	5.6	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°	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0
2.5°	8349.7	8291.9	8212.1	8150.2	8004.6	7795.1	7573.6	7573.6	7360.1	7062.9	6759.6
5°	9630.6	9592.7	9514.9	9355.3	9191.7	8898.4	8453.5	8375.7	7994.6	7455.9	6889.3
7.5°	10151.4	10169.3	10173.3	10131.4	10053.6	9764.3	9323.4	9269.5	8661.0	7938.7	7058.9
10°	9652.6	9740.4	9826.1	9999.7	10245.1	10315.0	10065.6	10009.7	9411.2	8427.5	7242.4
12.5°	8910.4	8958.2	9006.1	9279.5	9772.3	10336.9	10598.3	10596.3	10089.5	8914.4	7475.8
15°	8565.2	8607.1	8611.1	8732.8	9159.8	9981.8	10825.7	10855.6	10751.9	9514.9	7727.2
17.5°	8637.0	8670.9	8643.0	8672.9	8896.4	9590.7	10799.8	10899.5	11288.6	10091.5	7954.7
20°	9105.9	9171.7	9064.0	8980.2	9048.0	9487.0	10712.0	10851.7	11667.7	10654.1	8162.2
22.5°	9947.8	9983.8	9848.1	9618.6	9498.9	9704.4	10688.1	10825.7	11990.9	11115.0	8281.9
25°	10883.6	10871.6	10722.0	10464.6	10213.2	10143.4	10845.7	10969.4	12258.2	11530.0	8317.8
27.5°	11819.3	11855.2	11603.8	11284.6	10983.3	10801.8	11198.8	11290.6	12559.5	12002.9	8361.7
30°	12906.7	12848.8	12601.4	12236.3	11891.1	11637.7	11767.4	11793.4	12974.5	12629.3	8477.4
32.5°	14321.2	14161.6	13884.3	13245.8	12998.4	12569.5	12601.4	12633.3	13479.3	13249.8	8617.1
35°	16240.6	16232.6	15689.9	14830.0	14227.5	13694.7	13555.1	13581.0	14243.4	14171.6	8926.3
37.5°	18551.0	18582.9	17964.4	17098.5	15989.2	15143.2	14855.9	14859.9	15404.6	15444.5	9397.2
40°	20432.4	20516.2	20147.1	19562.5	18467.2	17144.4	16661.5	16617.7	17036.6	16986.8	10069.6
42.5°	21242.4	21320.2	21457.9	21661.4	21058.9	19967.5	18828.3	18888.1	19015.8	18666.7	10823.7
45°	20845.4	20969.1	21509.8	22766.7	23333.3	22966.2	21607.5	21398.0	20857.4	20492.2	11581.9
47.5°	19191.4	19492.7	20396.5	22489.4	24472.6	25713.6	24743.9	24466.6	22700.9	21825.0	12064.7
50°	16472.0	16490.0	17748.9	20424.4	23882.0	27447.4	27946.1	27738.7	24418.7	22573.2	12308.1
52.5°	11941.0	12334.1	13487.3	16585.7	21324.2	27184.0	29987.2	29901.4	26190.4	22956.3	12659.3
54°	9078.0	9153.8	10179.3	13253.8	18385.4	25737.5	30112.9	30132.8	27070.3	23187.7	12866.8
55°	7441.9	7260.4	8337.8	11290.6	16380.2	24458.6	29701.9	29797.7	27465.3	23307.4	13020.4
57.5°	3527.4	3529.4	4353.4	5955.5	10259.1	18991.9	27190.0	27529.2	27509.2	23512.9	13493.2
60°	1785.7	1797.6	1979.2	2749.3	5067.7	12625.3	22481.4	23289.5	25392.3	23542.8	13648.9
62.5°	1249.0	1235.0	1205.1	1322.8	2132.8	6416.4	16737.4	17439.7	21573.6	22403.6	13154.1
65°	1069.4	1039.5	955.7	937.7	1077.4	2555.8	10424.7	11569.9	16472.0	19398.9	11745.5
67.5°	913.8	901.8	826.0	780.1	762.1	1113.3	5378.9	5981.5	11258.7	13944.1	8896.4
70°	776.1	770.1	724.2	666.4	616.5	666.4	1995.2	2472.0	6274.8	7507.8	4197.8
72.5°	630.5	636.5	644.4	570.6	518.7	472.9	851.9	991.6	2625.6	2683.5	1468.4
75°	552.7	546.7	546.7	496.8	432.9	351.1	468.9	504.8	804.0	746.2	341.2
77.5°	389.1	375.1	438.9	409.0	361.1	249.4	267.4	283.3	333.2	285.3	159.6
80°	269.3	269.3	281.3	367.1	325.2	181.6	163.6	175.6	197.5	169.6	91.8
82.5°	151.6	155.6	183.6	195.5	189.5	121.7	107.7	109.7	131.7	115.7	57.9
85°	18.0	29.9	105.7	103.7	77.8	53.9	59.9	61.8	81.8	71.8	33.9
87.5°	2.0	4.0	21.9	27.9	20.0	21.9	21.9	21.9	27.9	31.9	23.9
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°	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0	6570.0
2.5°	6596.0	6444.4	6083.2	5664.2	5396.9	4962.0	4594.8	4329.5	4263.6	4136.0	4173.9
5°	6588.0	6272.8	5536.6	4758.4	3928.5	3310.0	2849.1	2486.0	2326.4	2220.6	2146.8
7.5°	6592.0	6099.2	4918.1	3679.1	2687.5	2080.9	1654.0	1432.5	1284.9	1223.0	1231.0
10°	6604.0	5903.7	4199.8	2725.4	1813.6	1344.7	1083.4	977.6	927.7	919.8	917.8
12.5°	6631.9	5690.2	3513.5	2023.1	1268.9	977.6	877.9	842.0	826.0	826.0	820.0
15°	6661.8	5454.8	2942.9	1504.3	977.6	840.0	794.1	776.1	766.1	766.1	764.1
17.5°	6661.8	5183.4	2410.1	1167.2	842.0	772.1	736.2	712.3	704.3	704.3	702.3
20°	6619.9	4868.2	1937.3	939.7	764.1	708.3	672.4	646.4	636.5	632.5	630.5
22.5°	6474.3	4447.2	1542.3	808.0	700.3	652.4	606.5	576.6	568.6	564.6	566.6
25°	6214.9	3972.4	1221.0	710.3	642.4	584.6	544.7	522.7	514.8	514.8	516.7
27.5°	5947.6	3475.6	967.7	636.5	572.6	520.7	488.8	474.8	472.9	478.8	480.8
30°	5700.2	2976.8	784.1	576.6	510.8	466.9	444.9	440.9	440.9	442.9	444.9
32.5°	5424.8	2539.8	656.4	524.7	460.9	423.0	411.0	411.0	415.0	415.0	419.0
35°	5251.3	2164.7	576.6	474.8	423.0	391.1	383.1	385.1	391.1	399.0	403.0
37.5°	5157.5	1865.5	524.7	434.9	387.1	365.1	357.1	361.1	375.1	389.1	391.1
40°	5165.5	1640.0	482.8	401.0	359.1	335.2	329.2	341.2	355.1	369.1	371.1
42.5°	5253.2	1472.4	442.9	361.1	335.2	301.3	299.3	311.2	317.2	331.2	333.2
45°	5357.0	1350.7	401.0	319.2	291.3	261.4	263.4	273.3	281.3	303.3	307.3
47.5°	5388.9	1266.9	353.1	271.3	239.4	229.4	231.4	237.4	253.4	273.3	275.3
50°	5424.8	1215.0	307.3	229.4	203.5	201.5	203.5	207.5	217.5	225.5	223.5
52.5°	5578.5	1213.1	269.3	199.5	173.6	177.6	179.6	177.6	169.6	157.6	153.6
54°	5722.1	1219.0	251.4	185.5	159.6	165.6	163.6	153.6	133.7	121.7	115.7
55°	5837.8	1225.0	241.4	175.6	151.6	153.6	155.6	135.7	109.7	97.8	93.8
57.5°	6065.3	1211.1	217.5	153.6	133.7	125.7	123.7	89.8	59.9	51.9	47.9
60°	5951.5	1093.3	197.5	131.7	113.7	101.8	83.8	49.9	29.9	21.9	21.9
62.5°	5504.6	927.7	175.6	107.7	93.8	77.8	43.9	27.9	14.0	8.0	6.0
65°	4924.0	780.1	157.6	85.8	73.8	49.9	23.9	18.0	6.0	0.0	0.0
67.5°	3661.1	578.6	133.7	67.8	55.9	31.9	16.0	10.0	2.0	0.0	0.0
70°	1695.9	353.1	113.7	51.9	39.9	23.9	12.0	6.0	0.0	0.0	0.0
72.5°	486.8	221.5	93.8	37.9	27.9	20.0	10.0	4.0	2.0	0.0	0.0
75°	169.6	177.6	69.8	27.9	21.9	14.0	8.0	4.0	2.0	0.0	0.0
77.5°	101.8	143.7	43.9	23.9	18.0	12.0	8.0	4.0	2.0	2.0	0.0
80°	57.9	95.8	27.9	20.0	16.0	10.0	6.0	4.0	2.0	2.0	0.0
82.5°	31.9	45.9	21.9	18.0	14.0	10.0	6.0	4.0	2.0	2.0	2.0
85°	25.9	23.9	18.0	16.0	12.0	8.0	6.0	2.0	0.0	0.0	0.0
87.5°	20.0	16.0	16.0	16.0	12.0	8.0	6.0	2.0	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)