

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: P457430

Luminaire Tested: **GALN-SA8D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45548 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

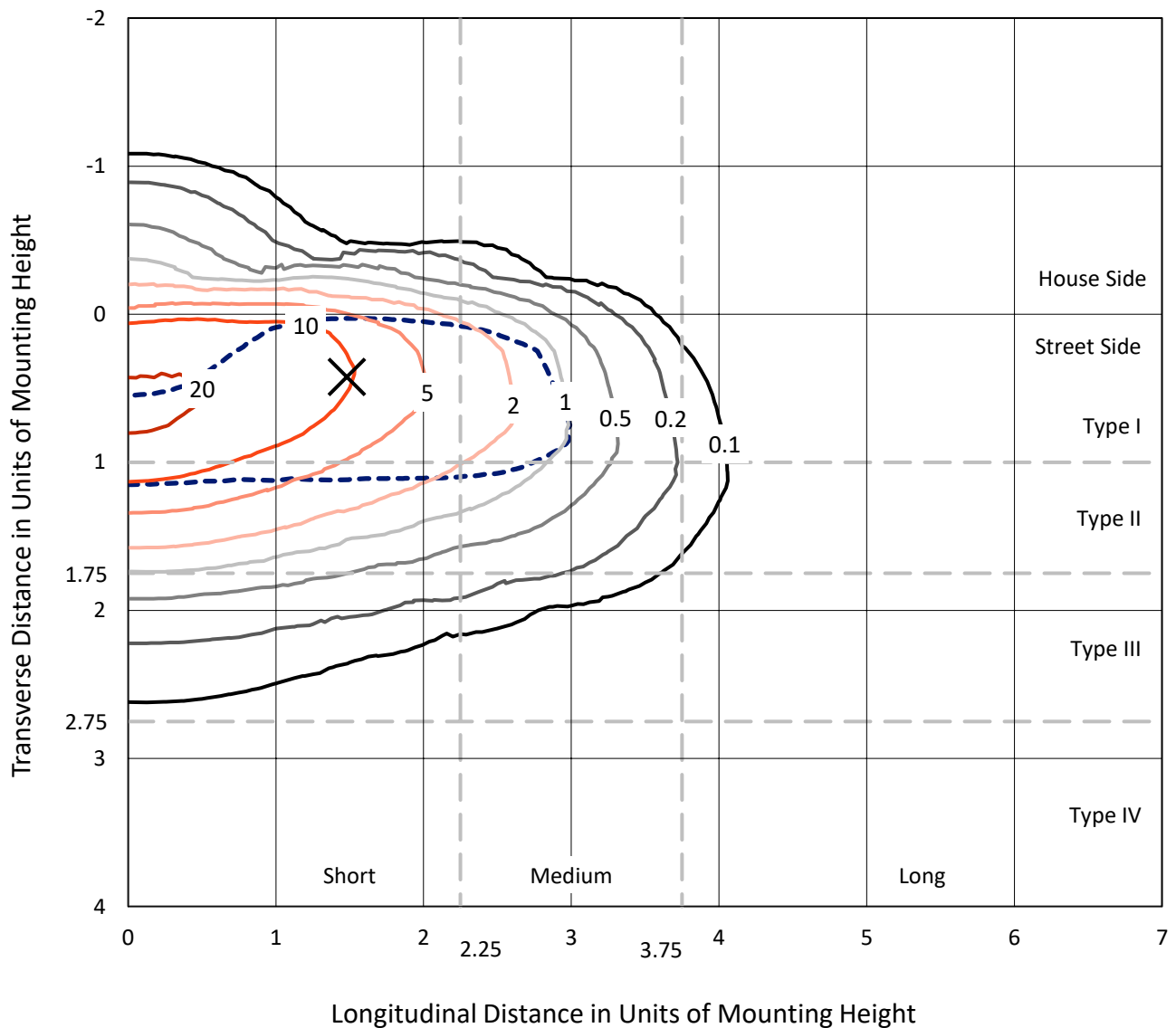
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

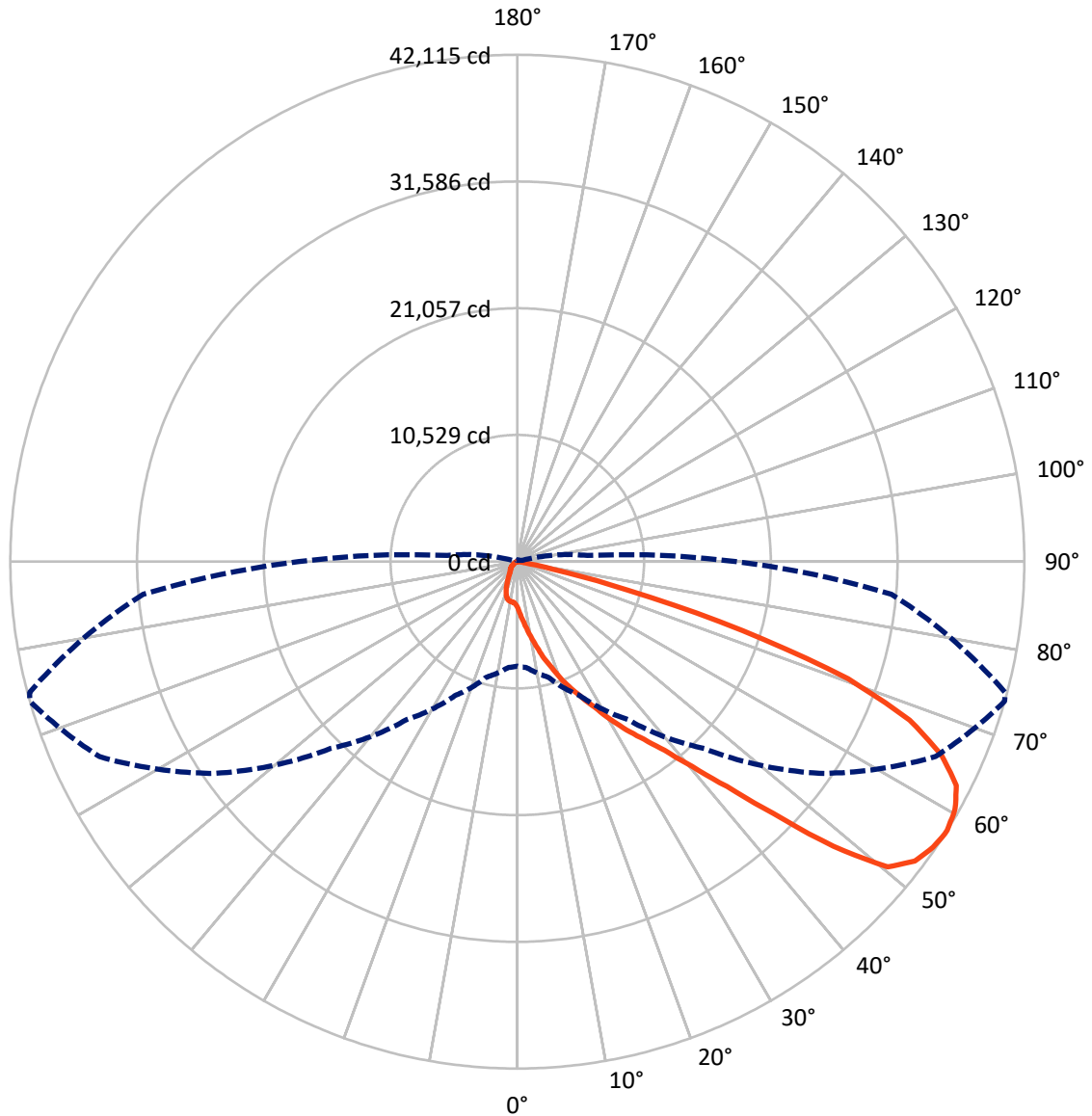
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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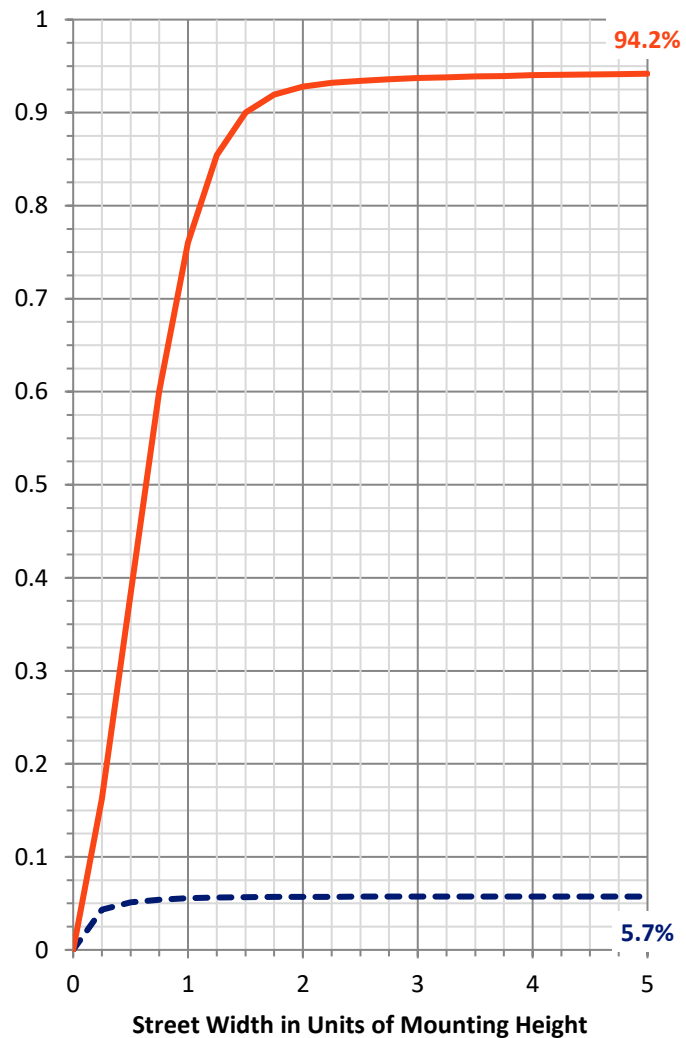
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.1	0.0	2627.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	42920.9	0.0	42920.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	45548.0	0.0	45548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	1.0
10°-20°	1814.8	4.0
20°-30°	3883.3	8.5
30°-40°	7137.4	15.7
40°-50°	10941.8	24.0
50°-60°	11575.0	25.4
60°-70°	7558.8	16.6
70°-80°	2065.3	4.5
80°-90°	111.2	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°	45548.0	100.0
0°-180°	45548.0	100.0



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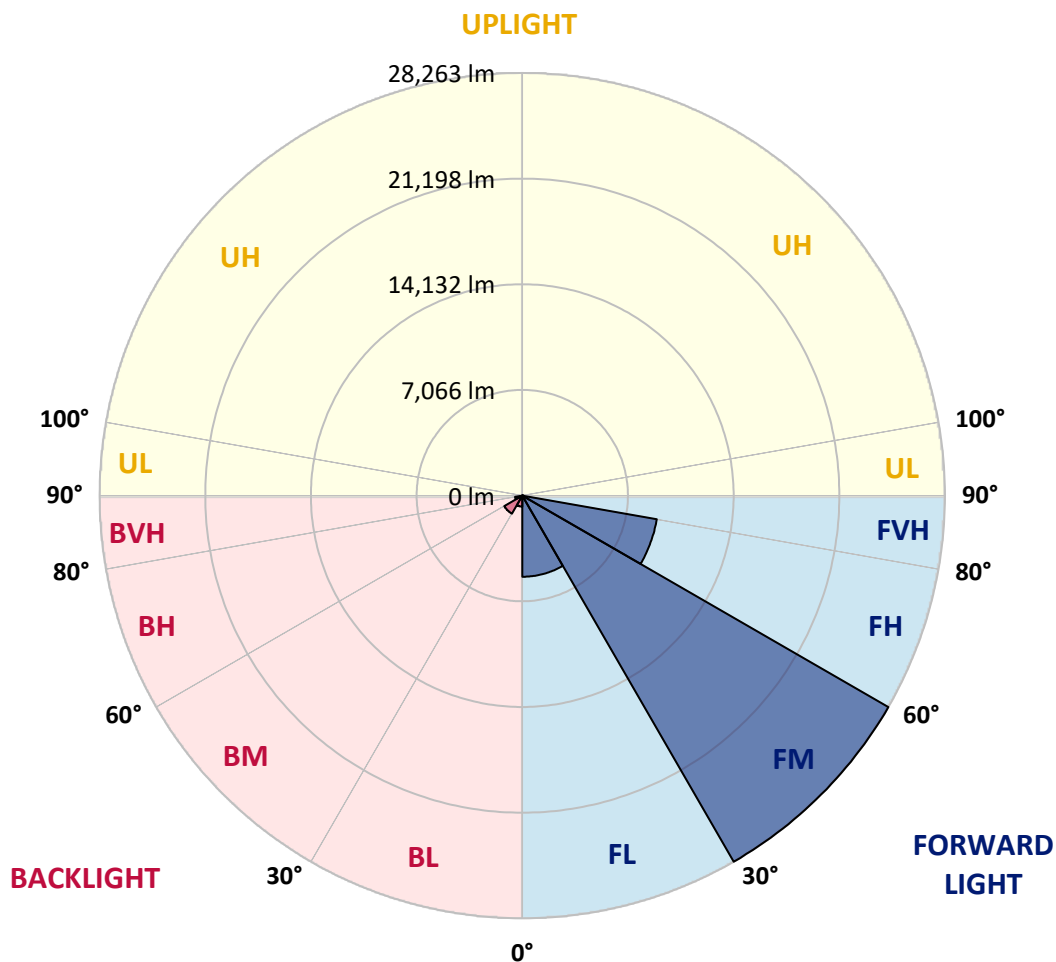
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5424.7	11.9			
FM	(30°-60°)	28263.4	62.1			
FH	(60°-80°)	9130.9	20.0			G4/12000
FVH	(80°-90°)	102.0	0.2			G2/225
BL	(0°-30°)	733.8	1.6	B2/1000		
BM	(30°-60°)	1390.8	3.1	B2/2500		
BH	(60°-80°)	493.2	1.1	B1/500		G1/500
BVH	(80°-90°)	9.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	5581.9	5531.6	5431.0	5396.4	5248.6	5019.0	4817.8	4547.3	4333.5	4311.5	4053.6
5°	7475.1	7361.9	7314.7	7088.3	6732.9	6399.6	5827.2	5393.3	4893.2	4855.5	4336.6
7.5°	9299.0	9141.8	9094.6	8880.8	8465.7	7940.5	7198.3	6409.0	5616.5	5544.2	4717.1
10°	10619.8	10641.8	10556.9	10415.4	10078.9	9544.3	8629.2	7550.6	6421.6	6330.4	5144.8
12.5°	11566.4	11563.3	11579.0	11575.8	11396.6	10990.9	10028.6	8786.4	7308.4	7129.2	5635.4
15°	12182.8	12192.2	12239.4	12402.9	12421.8	12170.2	11368.3	9968.9	8336.7	8113.5	6166.9
17.5°	12805.4	12871.5	12946.9	13101.0	13239.4	13138.8	12572.7	11201.6	9267.6	9100.9	6736.1
20°	13833.8	13925.0	13880.9	13975.3	14047.6	14057.0	13619.9	12340.0	10396.6	10116.7	7387.0
22.5°	15478.5	15475.3	15362.1	15192.3	15050.8	15044.5	14648.3	13509.9	11421.7	11151.3	8041.1
25°	17557.2	17566.6	17346.5	16862.2	16510.0	16079.1	15623.1	14535.0	12519.3	12185.9	8729.8
27.5°	19940.9	19881.1	19547.8	18881.1	18183.0	17447.1	16789.8	15726.9	13682.8	13406.1	9519.2
30°	22082.5	22060.4	21670.5	20856.0	19937.7	19198.7	18245.9	17220.7	15189.2	14849.5	10402.8
32.5°	24076.2	24107.7	23566.8	22724.0	21837.2	20984.9	19978.6	18648.4	16667.2	16186.0	11365.1
35°	25632.9	25664.3	25104.6	24403.3	23491.3	22783.7	21824.6	20170.4	18126.4	17720.7	12472.1
37.5°	26463.1	26504.0	26180.1	25651.8	25082.6	24727.2	23834.1	22129.6	19900.0	19654.7	13780.3
40°	26620.3	26667.5	26526.0	26384.5	26353.0	26607.8	26346.7	24437.9	22359.2	21975.5	15730.1
42.5°	26148.6	26211.5	26274.4	26588.9	27230.4	28164.4	29073.2	27570.1	25526.0	25010.2	18113.8
45°	24909.6	24903.3	25151.7	25966.2	27403.4	29397.2	31922.4	31491.6	29840.6	29227.3	21481.8
47.5°	22790.0	22758.6	23296.3	24456.7	26695.8	29623.6	34246.4	36252.7	35347.0	34781.0	25101.4
50°	19560.4	19714.5	20560.4	22179.9	24937.9	28938.0	34963.4	39375.5	39866.0	39265.4	28026.0
52.5°	15777.2	15770.9	17098.0	19296.2	22334.0	27428.5	34463.4	39941.5	41334.6	40875.5	29466.3
55°	11676.5	11758.2	13138.8	15355.8	18953.4	24673.7	32831.2	39359.7	41894.4	41570.5	30416.1
57°	8685.8	8830.5	9937.4	12283.4	16009.9	21947.2	30658.2	38318.8	42114.5	41938.4	31205.4
57.5°	8107.2	8113.5	9192.1	11324.3	15148.3	20900.0	30035.5	37884.8	42108.2	42010.8	31334.3
60°	4990.7	5148.0	5893.3	7654.3	11088.4	16311.8	25862.5	35391.1	41781.2	41922.7	31884.7
62.5°	2987.5	3053.6	3537.8	4613.4	7148.0	11906.0	21164.2	32199.1	40929.0	41359.8	31846.9
65°	1921.4	1937.2	2157.3	2792.5	4468.7	8047.4	16308.7	27982.0	38724.5	39517.0	30601.6
67.5°	1484.3	1509.5	1597.5	1833.4	2591.3	5012.7	11535.0	23481.9	35158.3	36180.4	27582.6
70°	1317.7	1330.2	1361.7	1437.2	1713.9	2830.3	7176.3	18343.3	29155.0	29444.3	21585.6
72.5°	1075.5	1110.1	1207.6	1232.7	1358.5	1767.4	3993.8	12311.7	19588.7	19661.0	12075.9
75°	833.4	839.6	984.3	1056.6	1144.7	1217.0	1783.1	6207.7	9409.1	8905.9	4654.2
77.5°	622.7	651.0	717.0	808.2	934.0	871.1	798.8	2339.7	2921.5	2868.0	1352.2
80°	399.4	415.1	500.0	606.9	726.4	569.2	449.7	685.6	641.5	660.4	323.9
82.5°	201.3	204.4	320.8	493.7	462.3	286.2	283.0	279.9	239.0	235.9	150.9
85°	22.0	47.2	207.6	283.0	207.6	94.3	132.1	128.9	125.8	128.9	88.1
87.5°	3.1	3.1	34.6	40.9	28.3	31.4	37.7	40.9	50.3	47.2	37.7
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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3927.8	3802.0	3569.3	3346.0	3179.3	3072.4	2934.1	2883.7	2811.4	2802.0	2767.4
5°	4097.6	3858.6	3452.9	3132.2	2874.3	2679.3	2509.5	2368.0	2254.8	2229.6	2242.2
7.5°	4339.8	3984.4	3418.3	2981.2	2622.7	2289.4	2018.9	1852.3	1732.8	1688.7	1695.0
10°	4613.4	4151.1	3412.1	2820.8	2273.7	1864.8	1569.2	1421.4	1352.2	1327.1	1298.8
12.5°	4937.3	4342.9	3396.3	2572.4	1890.0	1487.5	1276.8	1188.7	1122.7	1103.8	1103.8
15°	5302.1	4547.3	3320.9	2264.2	1534.6	1229.6	1088.1	1018.9	996.9	978.0	978.0
17.5°	5682.6	4748.6	3163.6	1883.7	1273.6	1053.5	965.4	924.6	893.1	871.1	871.1
20°	6116.5	4946.7	2912.0	1547.2	1075.5	940.3	871.1	823.9	798.8	779.9	773.6
22.5°	6528.5	5107.1	2591.3	1270.5	937.1	845.9	783.0	732.7	707.6	698.1	698.1
25°	6956.2	5204.6	2204.5	1050.3	855.4	767.3	698.1	657.3	635.2	629.0	625.8
27.5°	7371.3	5261.2	1864.8	918.3	779.9	695.0	629.0	597.5	575.5	569.2	572.3
30°	7874.5	5270.6	1534.6	823.9	713.9	625.8	566.1	537.8	525.2	518.9	515.7
32.5°	8383.9	5258.0	1289.3	767.3	651.0	566.1	515.7	493.7	484.3	474.9	474.9
35°	8956.3	5192.0	1097.5	710.7	591.2	515.7	471.7	452.8	440.3	430.8	427.7
37.5°	9667.0	5157.4	987.5	647.8	537.8	468.6	427.7	408.8	399.4	386.8	383.7
40°	10786.5	5311.5	952.9	591.2	484.3	424.5	386.8	364.8	352.2	339.6	336.5
42.5°	12182.8	5581.9	896.3	534.6	437.1	383.7	345.9	320.8	298.8	283.0	276.7
45°	13991.0	5937.3	808.2	474.9	396.2	339.6	305.0	273.6	245.3	232.7	229.6
47.5°	15887.3	6280.1	729.6	427.7	352.2	301.9	264.2	229.6	204.4	195.0	191.8
50°	17050.9	6349.3	679.3	374.2	308.2	261.0	223.3	191.8	176.1	166.7	166.7
52.5°	17582.3	6239.2	610.1	327.1	267.3	229.6	191.8	166.7	157.2	150.9	147.8
55°	17953.4	6069.4	518.9	283.0	229.6	195.0	169.8	150.9	138.4	132.1	128.9
57°	18170.4	5839.8	449.7	248.4	198.1	169.8	150.9	135.2	122.6	110.1	110.1
57.5°	18179.8	5751.8	430.8	245.3	188.7	163.5	147.8	132.1	116.4	103.8	100.6
60°	17899.9	5148.0	345.9	207.6	150.9	138.4	122.6	103.8	81.8	69.2	66.0
62.5°	17000.5	4380.6	286.2	176.1	122.6	106.9	88.1	78.6	56.6	40.9	40.9
65°	15638.9	3553.6	245.3	141.5	100.6	78.6	59.8	56.6	34.6	18.9	15.7
67.5°	13670.2	2767.4	207.6	116.4	84.9	56.6	40.9	37.7	18.9	6.3	0.0
70°	10415.4	1886.9	173.0	94.3	62.9	40.9	28.3	22.0	12.6	3.1	0.0
72.5°	6003.3	1037.8	144.7	72.3	47.2	31.4	22.0	12.6	12.6	0.0	0.0
75°	2144.7	446.6	110.1	53.5	37.7	25.2	15.7	6.3	9.4	3.1	0.0
77.5°	682.4	239.0	72.3	40.9	31.4	18.9	12.6	6.3	6.3	3.1	0.0
80°	201.3	125.8	44.0	34.6	22.0	15.7	9.4	3.1	6.3	3.1	0.0
82.5°	110.1	62.9	34.6	25.2	22.0	12.6	9.4	3.1	3.1	3.1	0.0
85°	56.6	37.7	28.3	25.2	22.0	12.6	9.4	3.1	0.0	3.1	3.1
87.5°	31.4	28.3	28.3	25.2	22.0	15.7	9.4	3.1	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)