

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: P651968

Luminaire Tested: **GALN-SA6A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651968
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-SA6A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 18259 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

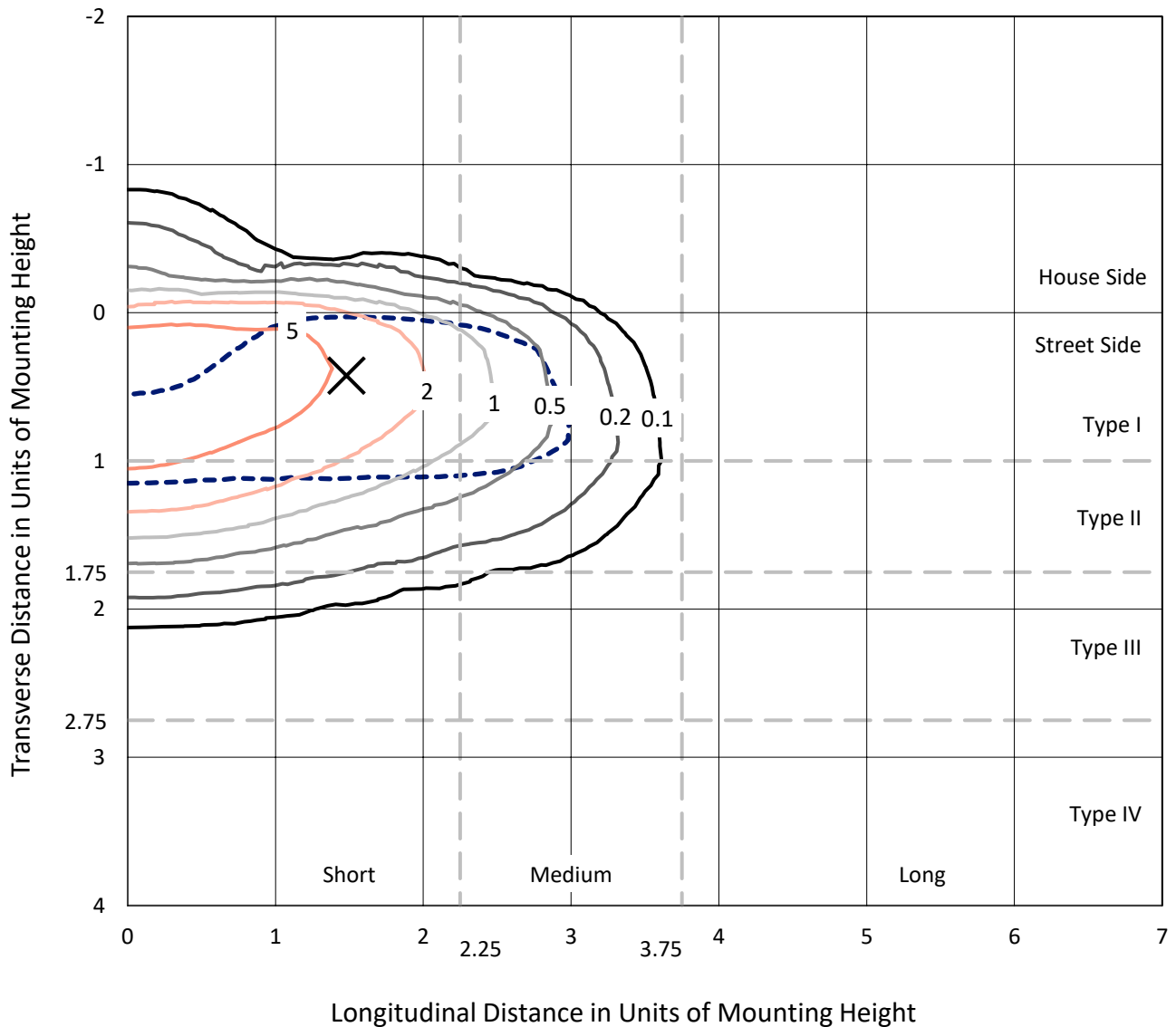
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

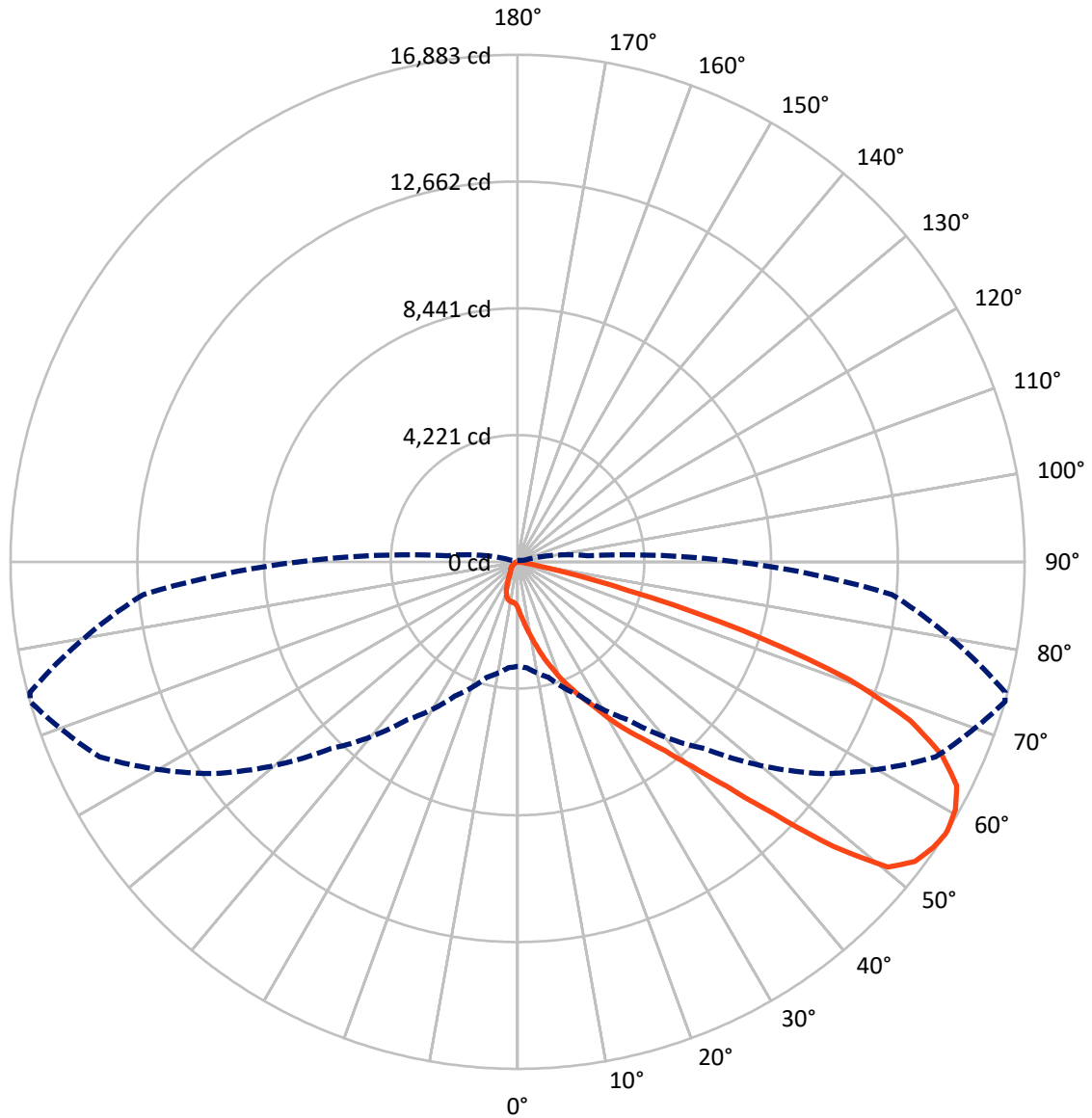
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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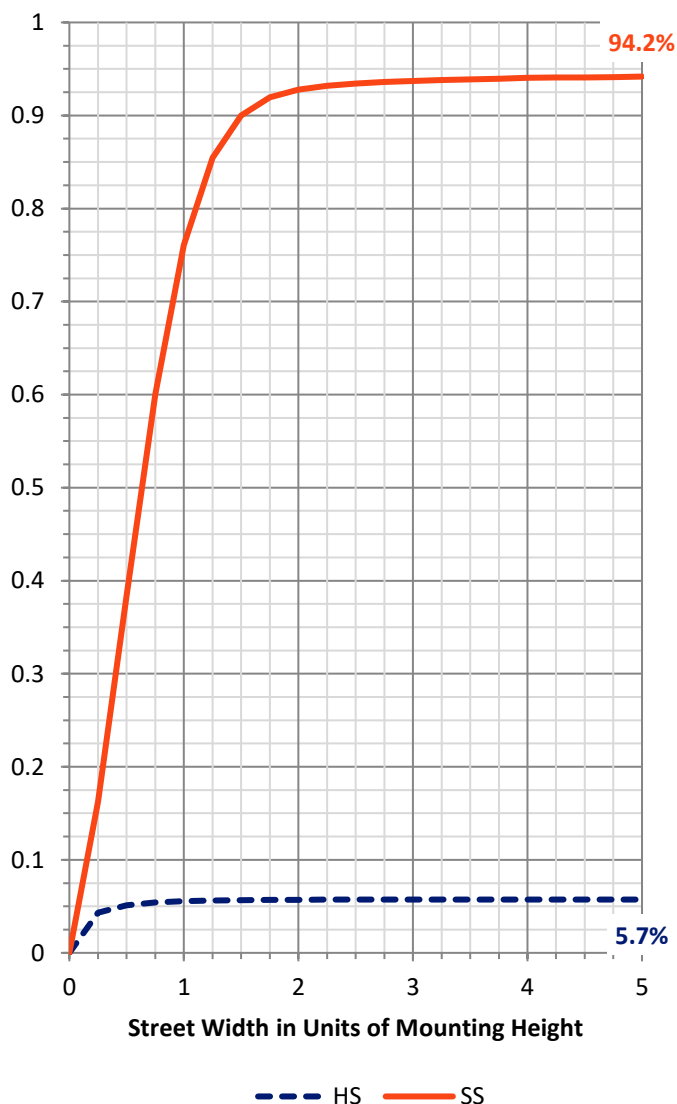
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.1	0.0	1053.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17205.8	0.0	17205.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	18259.0	0.0	18259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.0
10°-20°	727.5	4.0
20°-30°	1556.7	8.5
30°-40°	2861.2	15.7
40°-50°	4386.3	24.0
50°-60°	4640.1	25.4
60°-70°	3030.1	16.6
70°-80°	827.9	4.5
80°-90°	44.6	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°	18259.0	100.0
0°-180°	18259.0	100.0

Coefficient of Utilization

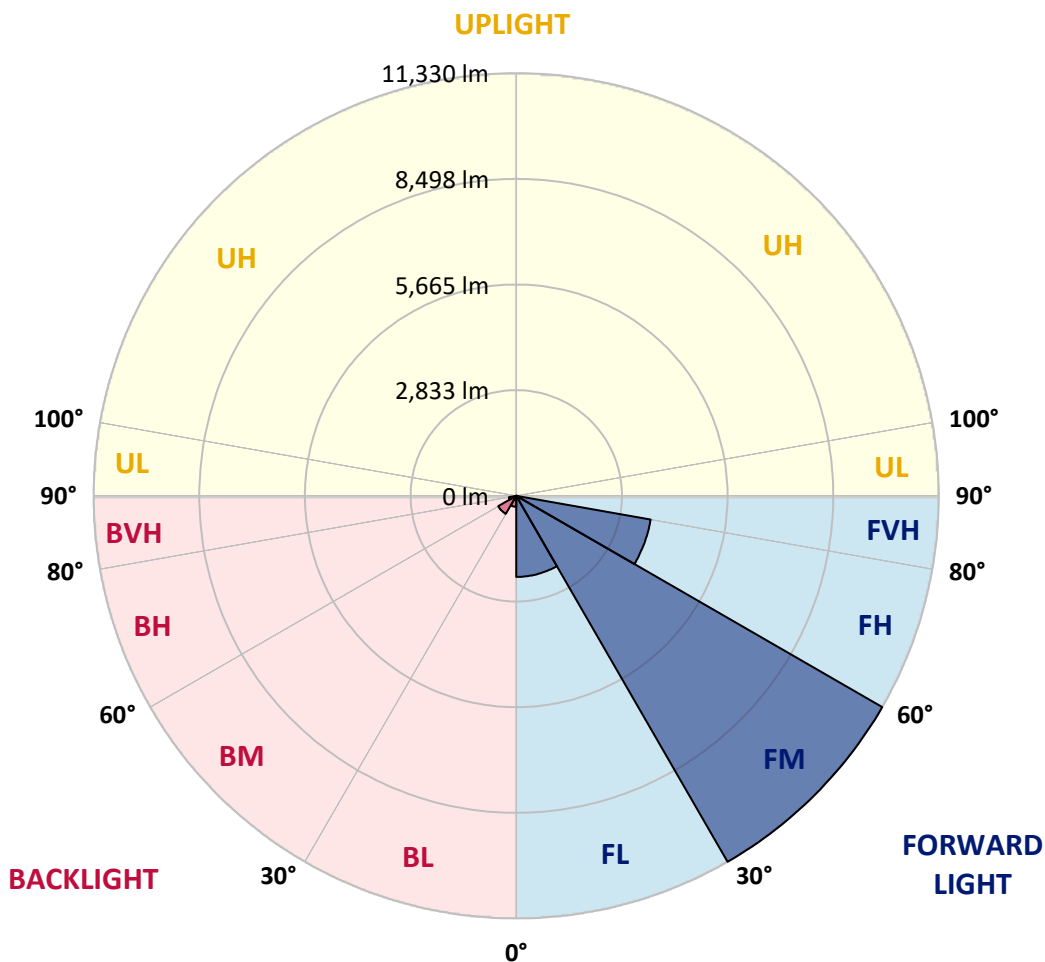


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2174.6	11.9			
FM (30°-60°)	11330.0	62.1			
FH (60°-80°)	3660.3	20.0			G2/5000
FVH (80°-90°)	40.9	0.2			G1/100
BL (0°-30°)	294.2	1.6	B1/500		
BM (30°-60°)	557.5	3.1	B1/1000		
BH (60°-80°)	197.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	65°	74°	75°	85°
0°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	2237.6	2217.5	2177.1	2163.3	2104.0	2012.0	1931.3	1822.9	1737.2	1728.3	1625.0
5°	2996.6	2951.2	2932.2	2841.5	2699.0	2565.4	2336.0	2162.0	1961.5	1946.4	1738.4
7.5°	3727.7	3664.7	3645.8	3560.0	3393.7	3183.1	2885.6	2569.2	2251.5	2222.5	1891.0
10°	4257.2	4266.1	4232.0	4175.2	4040.3	3826.0	3459.2	3026.8	2574.2	2537.7	2062.4
12.5°	4636.7	4635.4	4641.7	4640.5	4568.6	4406.0	4020.2	3522.3	2929.7	2857.9	2259.1
15°	4883.8	4887.6	4906.4	4972.0	4979.6	4878.7	4557.2	3996.3	3342.0	3252.5	2472.1
17.5°	5133.4	5159.8	5190.1	5251.9	5307.3	5267.0	5040.0	4490.4	3715.1	3648.3	2700.3
20°	5545.6	5582.1	5564.5	5602.3	5631.3	5635.1	5459.9	4946.8	4167.7	4055.5	2961.2
22.5°	6204.9	6203.6	6158.2	6090.2	6033.4	6030.9	5872.1	5415.7	4578.7	4470.3	3223.5
25°	7038.2	7041.9	6953.7	6759.6	6618.4	6445.7	6262.9	5826.7	5018.7	4885.0	3499.6
27.5°	7993.8	7969.8	7836.2	7568.9	7289.0	6994.1	6730.6	6304.5	5485.1	5374.2	3816.0
30°	8852.3	8843.5	8687.1	8360.6	7992.5	7696.2	7314.3	6903.3	6088.9	5952.8	4170.2
32.5°	9651.5	9664.1	9447.3	9109.5	8753.9	8412.3	8008.8	7475.6	6681.4	6488.6	4555.9
35°	10275.5	10288.1	10063.7	9782.6	9417.0	9133.3	8748.9	8085.8	7266.3	7103.8	4999.7
37.5°	10608.4	10624.7	10494.8	10283.1	10054.9	9912.4	9554.4	8871.2	7977.4	7879.1	5524.1
40°	10671.4	10690.3	10633.5	10576.8	10564.2	10666.3	10561.7	9796.5	8963.2	8809.4	6305.7
42.5°	10482.3	10507.5	10532.7	10658.7	10915.9	11290.3	11654.7	11052.1	10232.7	10025.9	7261.3
45°	9985.6	9983.1	10082.7	10409.1	10985.2	11784.5	12796.8	12624.1	11962.3	11716.5	8611.5
47.5°	9135.9	9123.3	9338.9	9804.0	10701.6	11875.3	13728.4	14532.7	14169.7	13942.8	10062.5
50°	7841.2	7903.0	8242.1	8891.3	9996.9	11600.5	14015.9	15784.6	15981.2	15740.4	11234.8
52.5°	6324.7	6322.1	6854.2	7735.3	8953.1	10995.3	13815.4	16011.5	16569.9	16385.9	11812.3
55°	4680.8	4713.6	5267.0	6155.7	7597.9	9891.0	13161.1	15778.3	16794.3	16664.5	12193.0
57°	3481.9	3539.9	3983.6	4924.1	6417.9	8798.0	12290.0	15360.9	16882.6	16812.0	12509.4
57.5°	3250.0	3252.5	3684.8	4539.5	6072.5	8378.2	12040.4	15187.0	16880.0	16840.9	12561.1
60°	2000.7	2063.6	2362.5	3068.4	4445.0	6538.9	10367.5	14187.3	16748.9	16805.7	12781.7
62.5°	1197.6	1224.1	1418.3	1849.4	2865.5	4772.8	8484.2	12907.8	16407.3	16580.0	12766.5
65°	770.3	776.6	864.8	1119.5	1791.4	3226.0	6537.7	11217.3	15523.6	15841.2	12267.3
67.5°	595.0	605.1	640.4	734.9	1038.8	2009.5	4624.1	9413.2	14094.0	14503.7	11057.1
70°	528.2	533.3	545.9	576.1	687.0	1134.6	2876.8	7353.4	11687.5	11803.4	8653.0
72.5°	431.2	445.0	484.1	494.2	544.6	708.5	1601.0	4935.4	7852.6	7881.5	4840.9
75°	334.0	336.6	394.6	423.6	458.8	487.9	714.8	2488.5	3771.9	3570.1	1865.8
77.5°	249.6	261.0	287.5	324.0	374.4	349.2	320.2	937.9	1171.2	1149.7	542.1
80°	160.1	166.4	200.4	243.3	291.2	228.2	180.3	274.8	257.2	264.7	129.9
82.5°	80.7	81.9	128.6	197.9	185.4	114.7	113.5	112.2	95.8	94.5	60.6
85°	8.8	18.9	83.2	113.5	83.2	37.8	53.0	51.7	50.5	51.7	35.3
87.5°	1.3	1.3	13.9	16.4	11.4	12.6	15.1	16.4	20.2	18.9	15.1
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°	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1574.5	1524.1	1430.8	1341.3	1274.5	1231.6	1176.2	1156.0	1127.0	1123.2	1109.4
5°	1642.6	1546.9	1384.2	1255.6	1152.3	1074.0	1006.0	949.2	903.9	893.8	898.9
7.5°	1739.7	1597.2	1370.3	1195.1	1051.4	917.8	809.3	742.5	694.6	677.0	679.5
10°	1849.4	1664.1	1367.8	1130.8	911.5	747.6	629.1	569.8	542.1	532.0	520.7
12.5°	1979.2	1741.0	1361.5	1031.2	757.7	596.3	511.8	476.5	450.0	442.5	442.5
15°	2125.5	1822.9	1331.2	907.7	615.2	492.9	436.1	408.5	399.6	392.1	392.1
17.5°	2278.0	1903.6	1268.2	755.1	510.6	422.4	387.0	370.6	358.0	349.2	349.2
20°	2451.9	1983.0	1167.4	620.2	431.2	376.9	349.2	330.3	320.2	312.6	310.2
22.5°	2617.1	2047.3	1038.8	509.3	375.7	339.1	313.9	293.8	283.7	279.9	279.9
25°	2788.6	2086.4	883.7	421.1	342.9	307.6	279.9	263.5	254.7	252.1	250.9
27.5°	2954.9	2109.1	747.6	368.1	312.6	278.6	252.1	239.5	230.7	228.2	229.4
30°	3156.7	2112.8	615.2	330.3	286.2	250.9	226.9	215.5	210.5	208.0	206.7
32.5°	3360.9	2107.8	516.9	307.6	261.0	226.9	206.7	197.9	194.1	190.3	190.3
35°	3590.3	2081.3	439.9	284.9	237.0	206.7	189.1	181.6	176.5	172.7	171.5
37.5°	3875.2	2067.4	395.9	259.7	215.5	187.8	171.5	163.9	160.1	155.1	153.8
40°	4324.0	2129.2	382.0	237.0	194.1	170.2	155.1	146.2	141.2	136.2	134.9
42.5°	4883.8	2237.6	359.3	214.3	175.3	153.8	138.7	128.6	119.8	113.5	110.9
45°	5608.6	2380.1	324.0	190.3	158.9	136.2	122.3	109.7	98.3	93.3	92.0
47.5°	6368.8	2517.5	292.5	171.5	141.2	121.0	105.9	92.0	81.9	78.1	76.9
50°	6835.2	2545.2	272.3	150.0	123.5	104.6	89.5	76.9	70.6	66.8	66.8
52.5°	7048.3	2501.1	244.6	131.1	107.1	92.0	76.9	66.8	63.0	60.6	59.3
55°	7197.0	2433.0	208.0	113.5	92.0	78.1	68.0	60.6	55.5	53.0	51.7
57°	7284.0	2341.0	180.3	99.6	79.4	68.0	60.6	54.2	49.2	44.2	44.2
57.5°	7287.8	2305.7	172.7	98.3	75.6	65.5	59.3	53.0	46.7	41.6	40.4
60°	7175.6	2063.6	138.7	83.2	60.6	55.5	49.2	41.6	32.8	27.8	26.5
62.5°	6815.0	1756.1	114.7	70.6	49.2	42.9	35.3	31.5	22.7	16.4	16.4
65°	6269.2	1424.6	98.3	56.8	40.4	31.5	24.0	22.7	13.9	7.6	6.3
67.5°	5480.0	1109.4	83.2	46.7	34.1	22.7	16.4	15.1	7.6	2.5	0.0
70°	4175.2	756.4	69.3	37.8	25.2	16.4	11.4	8.8	5.0	1.3	0.0
72.5°	2406.6	416.0	58.0	29.0	18.9	12.6	8.8	5.0	5.0	0.0	0.0
75°	859.8	179.0	44.2	21.4	15.1	10.1	6.3	2.5	3.8	1.3	0.0
77.5°	273.6	95.8	29.0	16.4	12.6	7.6	5.0	2.5	2.5	1.3	0.0
80°	80.7	50.5	17.7	13.9	8.8	6.3	3.8	1.3	2.5	1.3	0.0
82.5°	44.2	25.2	13.9	10.1	8.8	5.0	3.8	1.3	1.3	1.3	0.0
85°	22.7	15.1	11.4	10.1	8.8	5.0	3.8	1.3	0.0	1.3	1.3
87.5°	12.6	11.4	11.4	10.1	8.8	6.3	3.8	1.3	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)