

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: P651646

Luminaire Tested: **GALN-SA9D-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46177.6 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

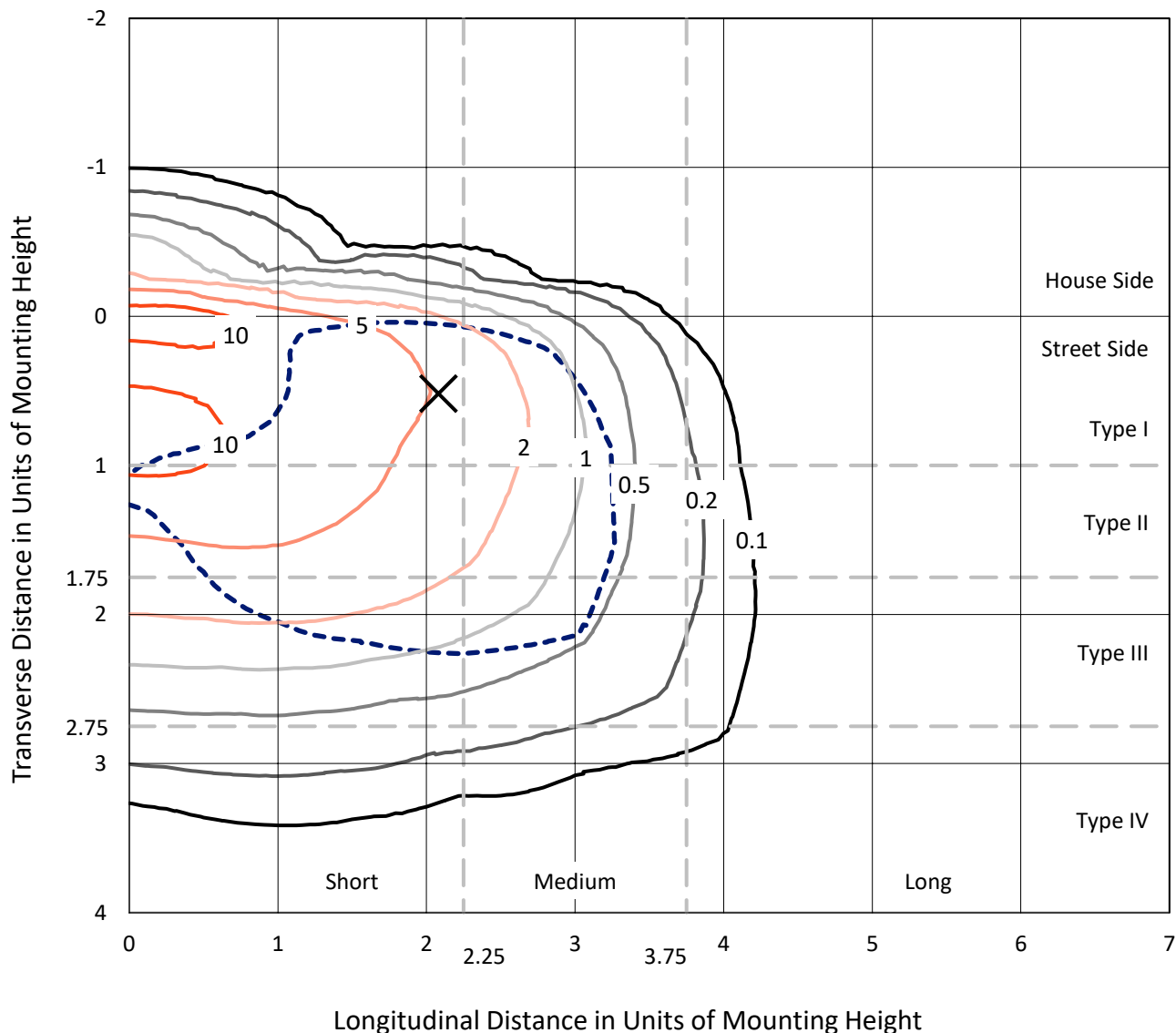
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

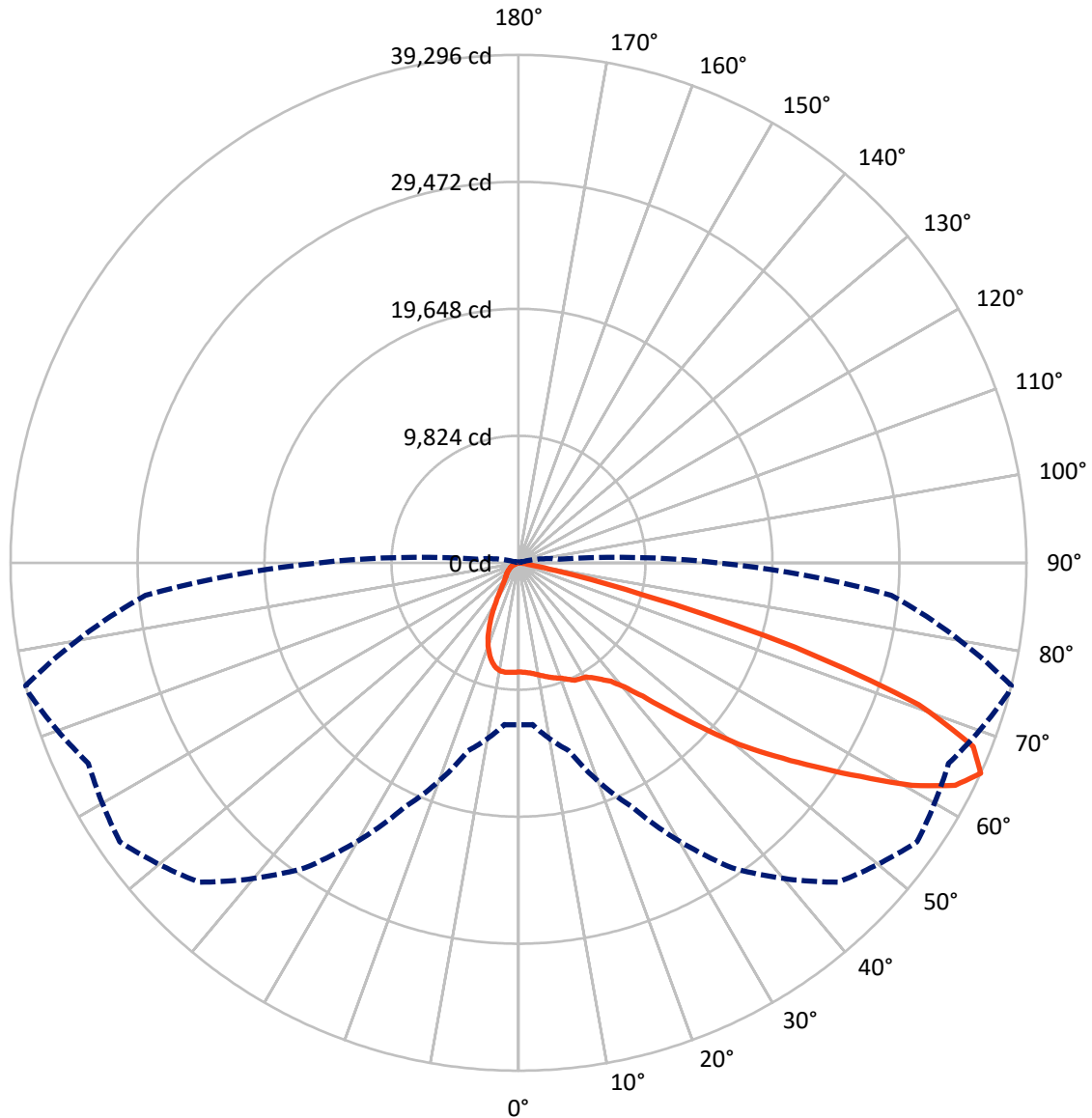
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

REPORT NUMBER: P651646
CATALOG NUMBER: GALN-SA9D-840-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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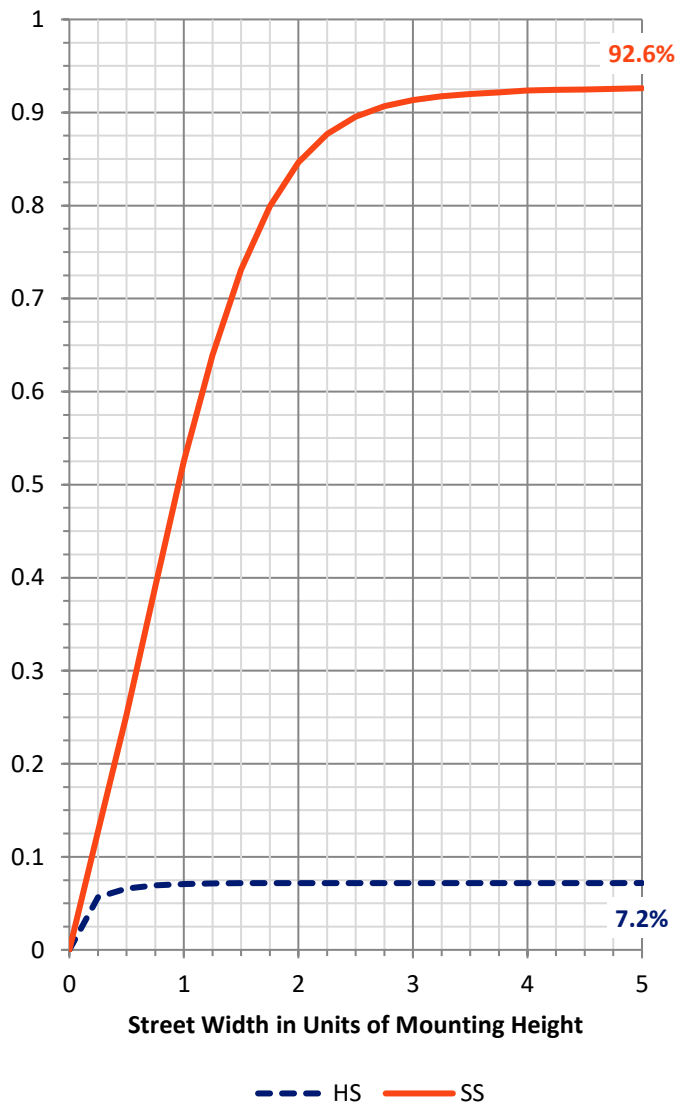
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.9	0.0	3334.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	42842.7	0.0	42842.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	46177.6	0.0	46177.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.9	1.5
10°-20°	1549.4	3.4
20°-30°	2496.7	5.4
30°-40°	4341.2	9.4
40°-50°	7173.5	15.5
50°-60°	11081.6	24.0
60°-70°	13532.2	29.3
70°-80°	5135.8	11.1
80°-90°	171.4	0.4
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°	46177.6	100.0
0°-180°	46177.6	100.0

Coefficient of Utilization

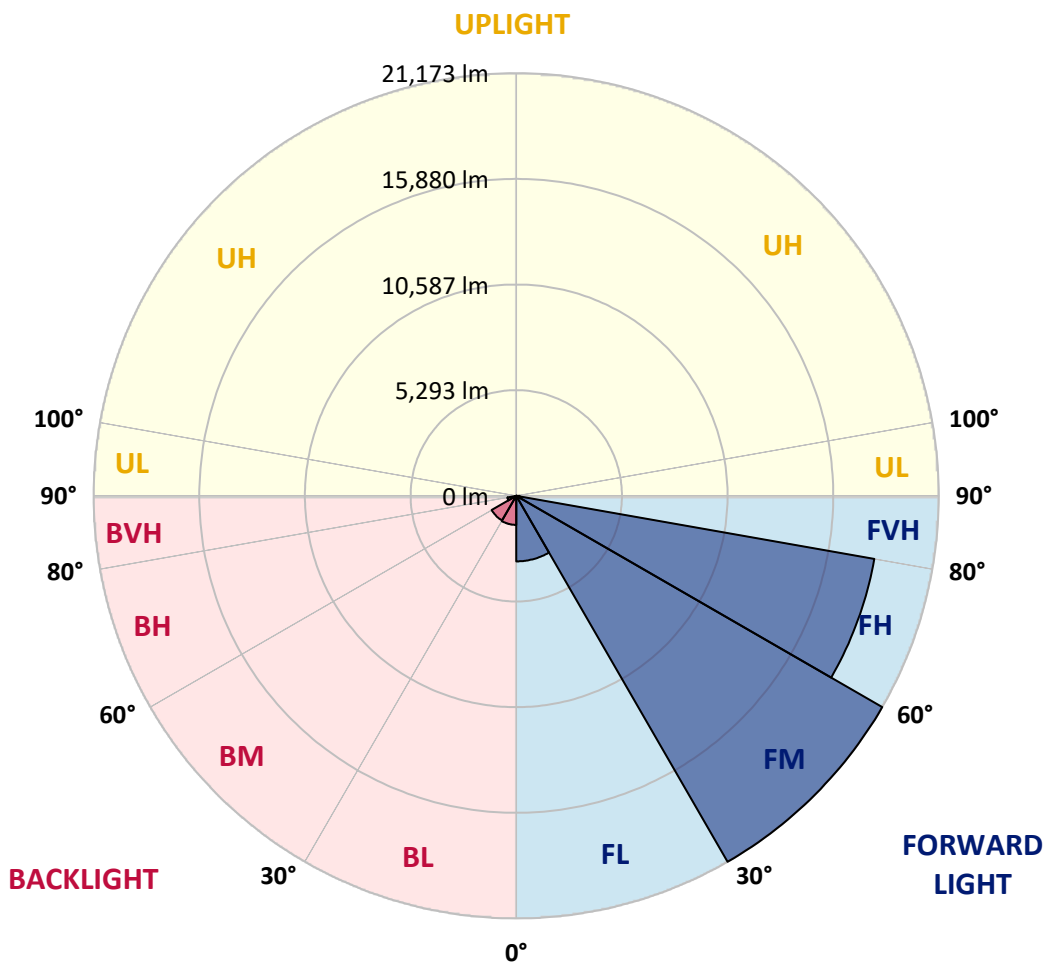


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.0	7.1			
FM (30°-60°)	21173.1	45.9			
FH (60°-80°)	18215.5	39.4			G5
FVH (80°-90°)	169.0	0.4			G2/225
BL (0°-30°)	1457.0	3.2	B3/2500		
BM (30°-60°)	1423.1	3.1	B2/2500		
BH (60°-80°)	452.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3
2.5°	8072.4	8075.7	8095.2	8144.2	8219.2	8281.1	8333.2	8418.0	8476.7	8483.3	8502.8
5°	7514.9	7475.8	7514.9	7642.1	7756.2	7928.9	8140.9	8352.8	8541.9	8555.0	8646.2
7.5°	6889.0	6921.5	6983.5	7113.9	7329.1	7593.1	7899.6	8277.8	8636.5	8669.0	8848.4
10°	6253.2	6324.9	6426.0	6624.9	6924.8	7267.2	7684.5	8225.7	8786.4	8832.1	9141.8
12.5°	5666.3	5699.0	5822.8	6090.2	6461.8	6944.4	7521.5	8196.3	8952.7	9008.1	9454.8
15°	5216.5	5258.9	5366.4	5607.7	6021.7	6641.2	7387.8	8186.5	9115.7	9194.0	9767.8
17.5°	5131.7	5157.8	5203.4	5366.4	5728.3	6399.9	7267.2	8183.3	9272.2	9366.7	10057.9
20°	5480.5	5457.7	5412.1	5395.8	5594.6	6214.1	7179.1	8209.3	9422.1	9529.8	10364.4
22.5°	6354.3	6383.6	6116.3	5800.0	5734.8	6184.7	7166.1	8333.2	9660.1	9787.3	10706.8
25°	8209.3	7984.4	7567.1	6810.7	6240.1	6364.0	7312.7	8626.6	9937.3	10077.5	11016.4
27.5°	10260.0	10191.6	9542.8	8297.4	7234.5	6742.2	7573.6	8851.6	10028.6	10172.1	11192.5
30°	12274.9	12356.4	11613.1	10237.2	8678.9	7443.2	7818.1	8936.4	10110.1	10260.0	11417.5
32.5°	14143.1	14240.9	13588.8	12226.0	10380.7	8656.0	8238.7	9265.7	10452.5	10605.7	11792.4
35°	15613.4	15626.5	15134.2	14048.5	12239.1	10129.7	9148.3	9842.7	10915.4	11094.7	12190.1
37.5°	16963.2	16943.6	16366.5	15430.8	13787.7	11593.5	10292.7	10507.9	11443.6	11629.3	12763.9
40°	17964.1	17977.1	17791.3	16911.0	15232.0	12946.5	11199.0	11130.6	12330.3	12620.6	13598.5
42.5°	18632.4	18753.0	18844.4	18397.7	17048.0	14612.5	12591.2	12464.0	13869.2	14110.5	14778.8
45°	19173.6	19388.8	19845.2	19822.5	18792.2	16656.8	14501.7	14240.9	16050.3	16307.9	16281.8
47.5°	19568.1	19786.5	20542.9	20999.4	20432.1	18639.0	16904.5	16679.6	18655.2	18935.6	17941.3
50°	19770.3	20031.1	20996.2	21879.7	21713.4	20549.5	19643.2	19656.2	21801.4	22072.0	19864.8
52.5°	19297.5	19636.6	21237.4	22828.4	23151.2	22378.5	22209.0	22639.3	24602.0	24833.5	21602.5
55°	17788.1	18215.1	20908.1	23637.0	24817.2	24536.8	25123.6	25778.9	27663.4	27813.4	23385.9
57.5°	16832.8	17286.0	19936.6	24324.9	26819.0	27249.3	28178.5	28657.7	30822.6	31204.0	25433.4
60°	16027.5	16382.8	19137.8	24471.6	28853.4	30568.3	31471.4	31966.9	34721.9	34969.7	27686.2
62.5°	14687.6	15095.0	17788.1	23447.8	29877.1	33225.4	35096.8	34875.1	37737.6	37910.4	29068.6
65°	12532.5	12568.3	15049.4	20875.6	28820.8	34950.1	37643.1	36713.9	39178.7	39296.1	28961.0
67.5°	9353.7	9699.3	11577.2	16408.9	24344.4	33476.4	38467.9	36762.8	38269.0	37943.1	26662.5
70°	6025.0	6289.1	7847.5	11378.3	17553.3	27937.3	35732.6	34242.7	33587.3	32863.5	21824.3
72.5°	2781.0	3120.1	4662.2	6501.0	10410.1	19900.7	29006.6	27819.9	24174.9	22388.3	13872.5
75°	1212.8	1297.6	2301.7	3429.8	4880.7	10524.2	19124.8	17269.7	10918.6	9973.2	5552.3
77.5°	740.1	795.5	1206.3	1838.8	1917.1	4010.1	10302.4	7534.5	3374.3	2976.6	1506.2
80°	502.1	564.1	877.0	961.8	655.3	1118.3	3866.7	2011.6	681.4	652.0	322.8
82.5°	244.5	309.7	648.8	537.9	283.7	358.6	1124.8	430.3	198.9	185.9	114.1
85°	35.8	62.0	365.2	352.1	127.2	84.8	198.9	107.6	68.5	65.2	52.1
87.5°	0.0	0.0	123.9	55.4	13.0	13.0	22.8	22.8	26.1	22.8	26.1
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°	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3	8447.3
2.5°	8512.6	8528.8	8466.9	8378.9	8284.4	8189.8	8056.1	7935.5	7863.8	7906.2	7801.8
5°	8665.8	8652.8	8489.7	8222.4	7867.1	7439.9	7016.1	6654.2	6536.8	6360.8	6341.2
7.5°	8877.7	8841.9	8496.3	7883.4	7081.3	6279.2	5496.8	4978.5	4681.8	4430.7	4437.2
10°	9174.4	9070.1	8421.3	7286.7	5966.3	4756.7	3759.1	3074.4	2777.7	2683.2	2608.2
12.5°	9480.8	9278.8	8212.6	6481.4	4645.9	3250.5	2285.4	1868.1	1685.5	1626.9	1620.4
15°	9754.8	9435.3	7847.5	5513.1	3377.6	2076.8	1558.4	1421.5	1398.7	1401.9	1398.7
17.5°	10025.3	9559.1	7342.1	4486.1	2295.3	1489.9	1340.0	1307.3	1317.2	1330.2	1326.9
20°	10250.3	9585.2	6696.6	3423.3	1623.6	1307.3	1258.5	1251.9	1261.8	1271.5	1271.5
22.5°	10494.8	9604.7	5930.4	2370.2	1326.9	1216.1	1190.0	1190.0	1203.1	1216.1	1219.4
25°	10677.4	9497.2	5014.3	1701.8	1170.4	1128.0	1115.0	1118.3	1131.3	1137.9	1134.6
27.5°	10706.8	9194.0	4042.8	1304.1	1062.9	1020.5	1007.4	1020.5	1004.2	1013.9	1007.4
30°	10732.8	8809.2	3058.1	1098.7	965.0	899.9	880.3	860.7	847.6	831.3	828.1
32.5°	10814.3	8356.1	2233.3	987.8	873.7	802.1	756.4	701.0	658.6	645.6	642.3
35°	10850.2	7811.6	1640.0	899.9	792.2	714.0	632.5	554.2	492.3	469.4	485.8
37.5°	10987.1	7283.5	1271.5	834.6	720.5	622.7	518.4	420.6	361.9	348.8	355.4
40°	11267.5	6709.7	1066.1	779.2	658.6	537.9	410.8	316.2	277.1	264.1	260.8
42.5°	11717.4	6139.1	948.7	727.0	596.6	453.2	322.8	247.8	215.2	205.4	205.4
45°	12265.1	5591.4	867.2	671.6	531.4	365.2	254.3	198.9	179.3	172.8	172.8
47.5°	12985.6	5112.1	798.8	616.2	459.7	290.1	205.4	172.8	159.8	163.0	166.3
50°	13716.0	4756.7	723.8	554.2	378.2	238.0	176.0	153.2	150.0	153.2	153.2
52.5°	14267.0	4548.0	622.7	469.4	296.7	198.9	156.5	143.5	140.2	133.6	133.6
55°	15010.3	4502.5	495.6	381.5	234.7	166.3	140.2	130.4	120.6	114.1	110.8
57.5°	15965.5	4554.6	381.5	296.7	182.6	136.9	123.9	107.6	94.5	81.5	81.5
60°	16559.0	4437.2	296.7	228.2	133.6	110.8	94.5	78.2	62.0	52.1	48.9
62.5°	16369.8	3941.7	234.7	169.5	94.5	81.5	62.0	52.1	35.8	26.1	22.8
65°	15395.0	3182.0	189.1	117.4	68.5	48.9	32.6	32.6	16.3	3.3	0.0
67.5°	13474.7	2357.2	150.0	78.2	39.1	22.8	16.3	9.8	0.0	0.0	0.0
70°	10967.6	1701.8	117.4	48.9	22.8	16.3	6.6	3.3	0.0	0.0	0.0
72.5°	6963.9	974.8	91.2	29.4	16.3	6.6	0.0	0.0	0.0	0.0	0.0
75°	2693.0	381.5	62.0	19.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	762.9	179.3	35.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.9	78.2	19.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	94.5	32.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.4	13.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	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)