

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: P651279

Luminaire Tested: **GALN-SA3D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651279
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-SA3D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 15912.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

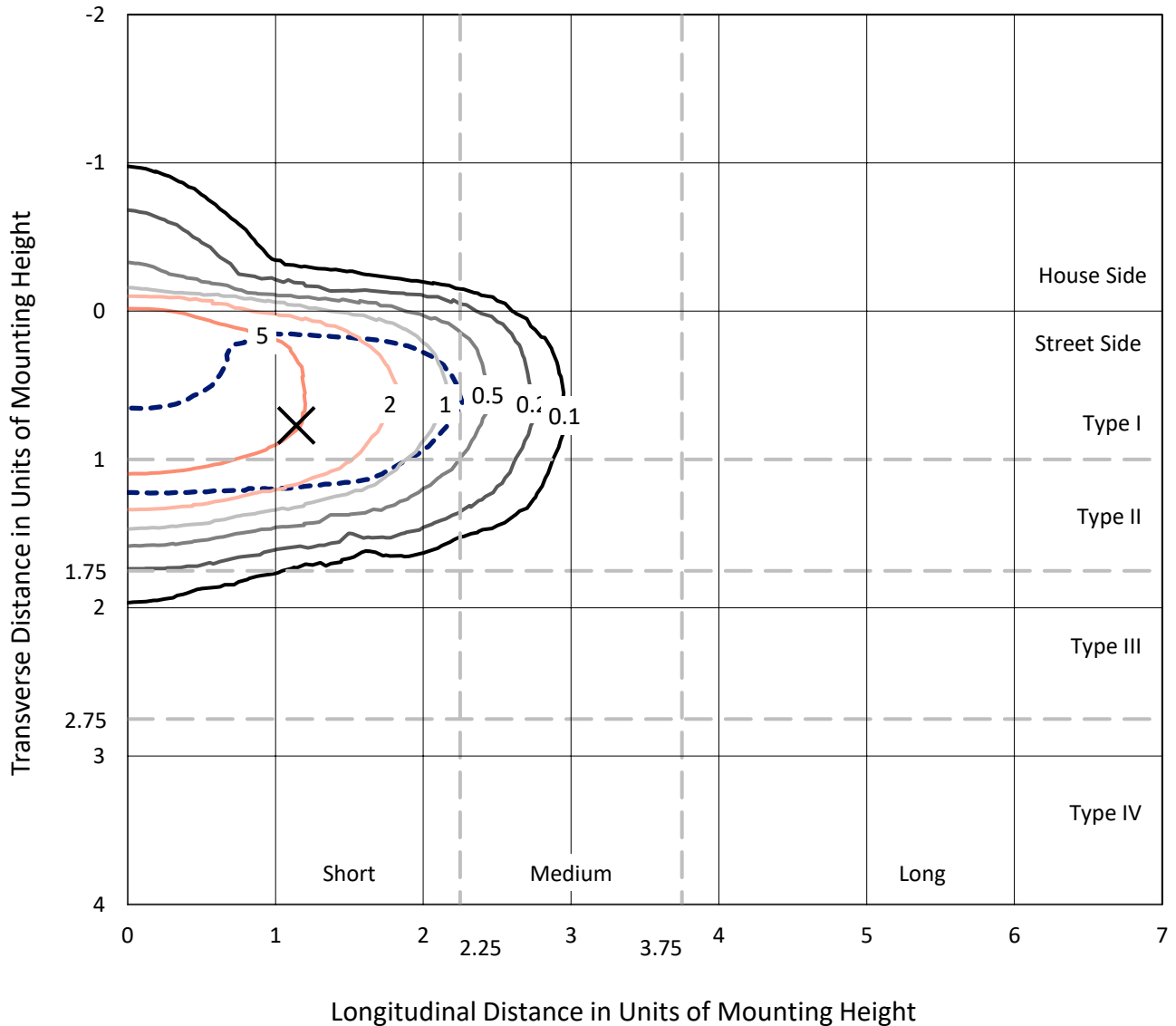
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

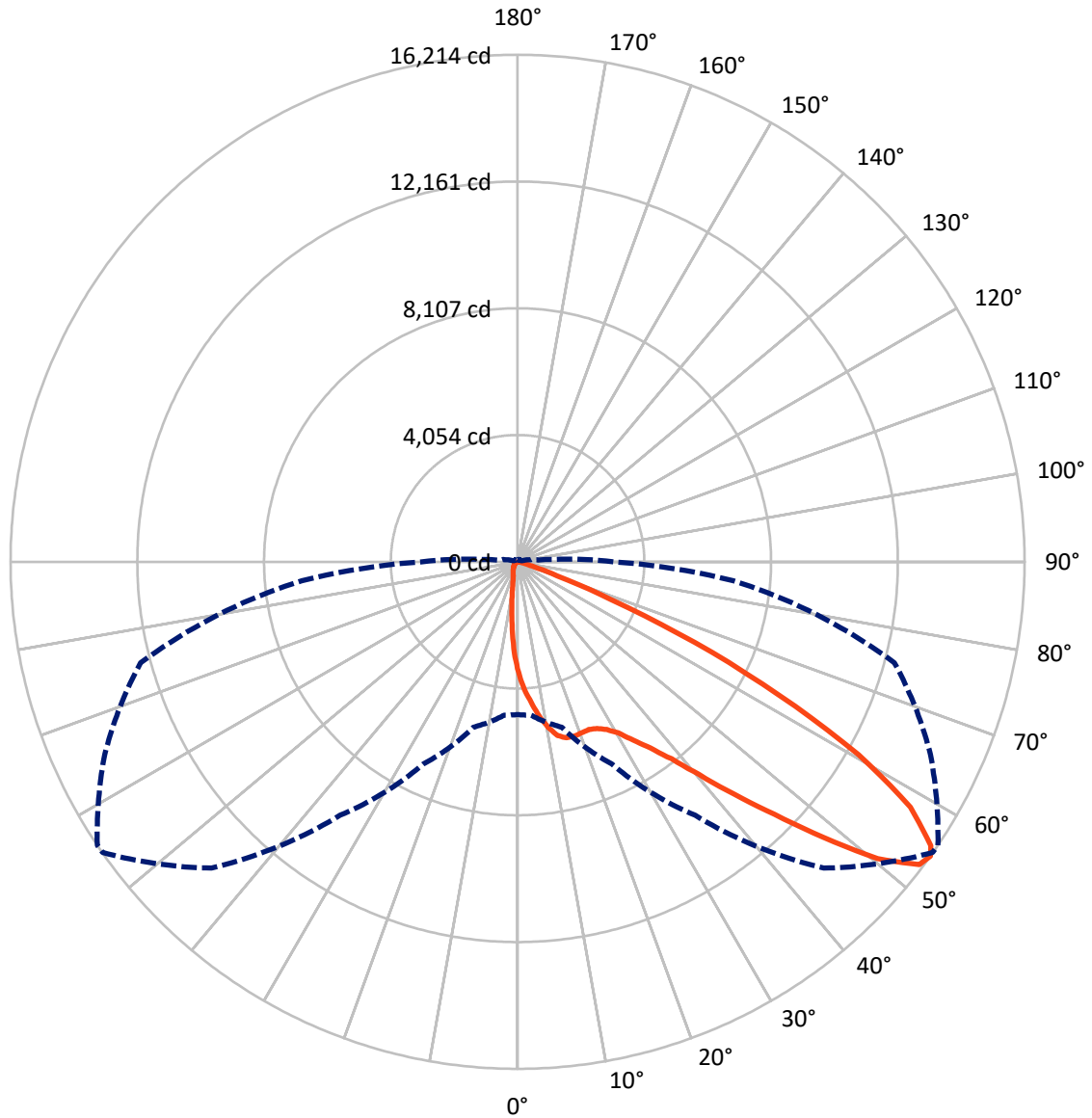
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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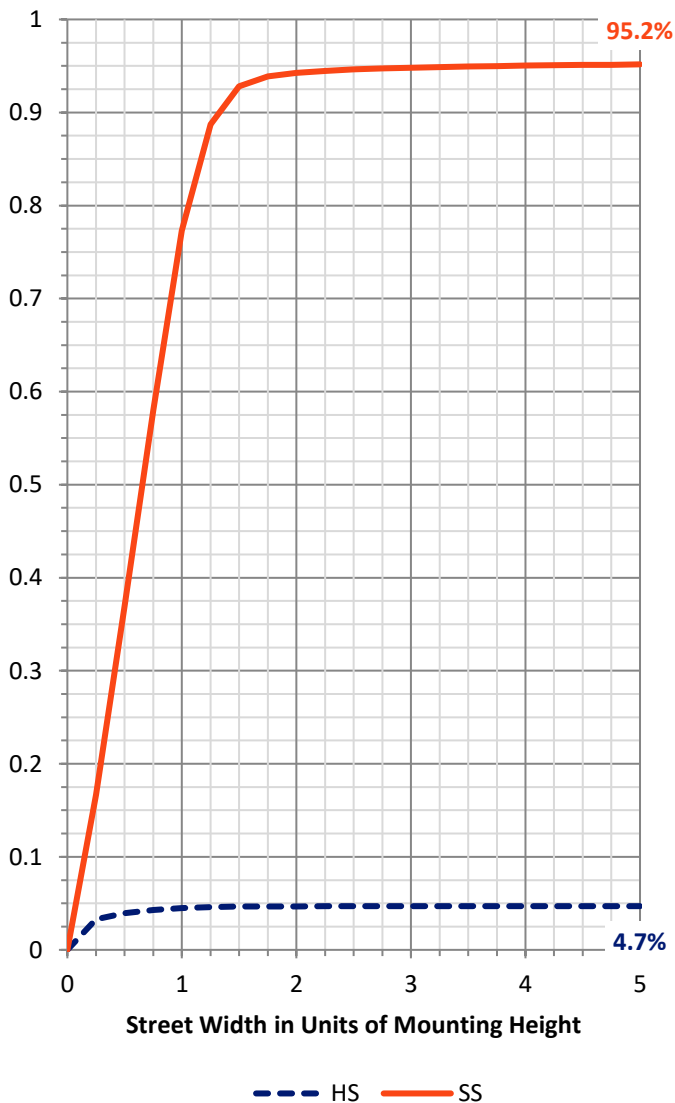
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.5	0.0	752.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15160.1	0.0	15160.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	15912.6	0.0	15912.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	2.0
10°-20°	844.5	5.3
20°-30°	1462.6	9.2
30°-40°	2524.8	15.9
40°-50°	4297.2	27.0
50°-60°	4252.6	26.7
60°-70°	1941.0	12.2
70°-80°	249.3	1.6
80°-90°	28.1	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°	15912.6	100.0
0°-180°	15912.6	100.0

Coefficient of Utilization

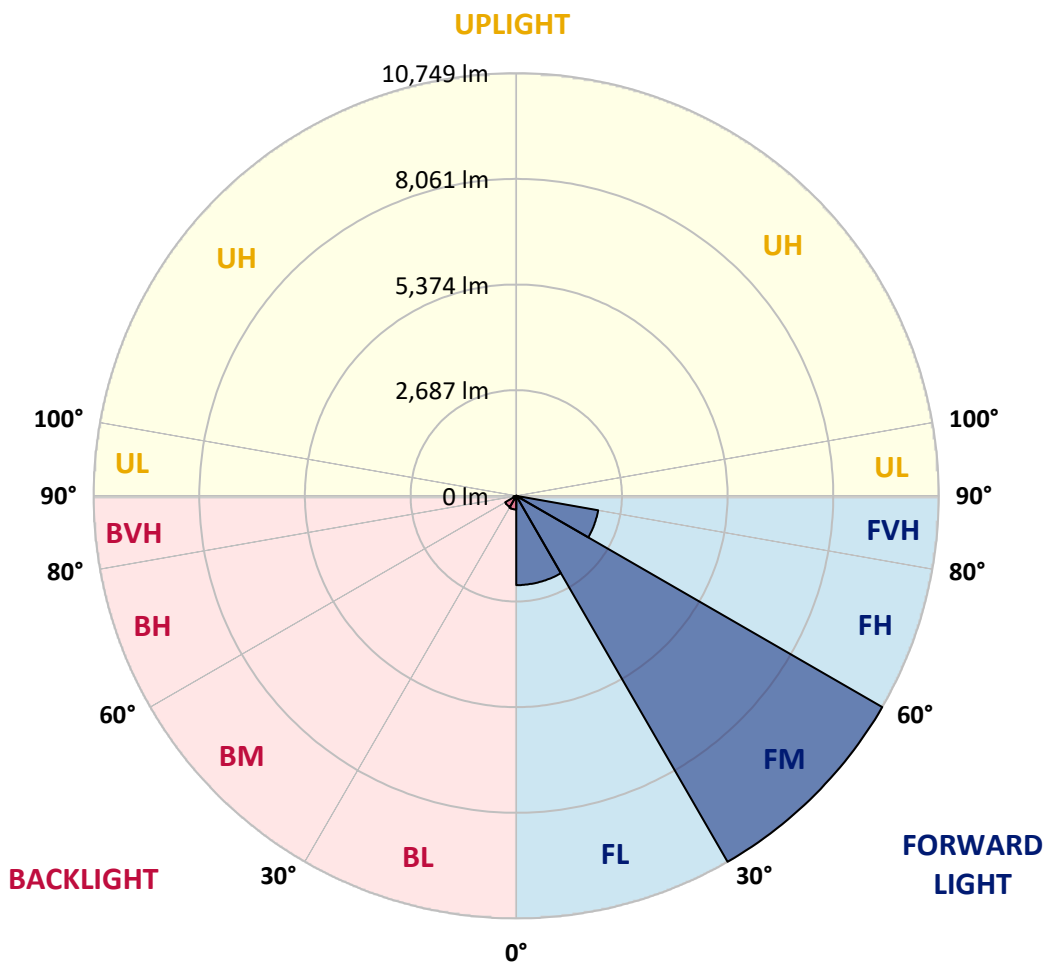


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.6	14.3			
FM (30°-60°)	10748.5	67.5			
FH (60°-80°)	2114.9	13.3			G2/5000
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	348.0	2.2	B1/500		
BM (30°-60°)	326.1	2.0	B1/1000		
BH (60°-80°)	75.4	0.5	B0/110		G0/110
BVH (80°-90°)	3.0	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°	56°	65°	75°	85°
0°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	4493.0	4461.8	4418.9	4385.6	4307.2	4194.5	4075.3	4075.3	3960.4	3800.5	3637.3
5°	5182.2	5161.8	5119.9	5034.1	4946.0	4788.1	4548.8	4506.9	4301.9	4012.0	3707.1
7.5°	5462.4	5472.1	5474.2	5451.7	5409.8	5254.1	5016.9	4987.9	4660.4	4271.8	3798.4
10°	5194.0	5241.3	5287.4	5380.8	5512.8	5550.4	5416.2	5386.2	5064.1	4534.8	3897.1
12.5°	4794.6	4820.4	4846.2	4993.3	5258.4	5562.2	5702.9	5701.8	5429.1	4796.8	4022.8
15°	4608.9	4631.5	4633.6	4699.1	4928.8	5371.1	5825.3	5841.3	5785.6	5119.9	4158.0
17.5°	4647.5	4665.8	4650.7	4666.9	4787.1	5160.7	5811.3	5865.0	6074.4	5430.2	4280.4
20°	4899.8	4935.2	4877.3	4832.2	4868.7	5104.9	5764.0	5839.2	6278.3	5732.9	4392.0
22.5°	5352.9	5372.2	5299.2	5175.8	5111.3	5221.9	5751.2	5825.3	6452.2	5980.9	4456.5
25°	5856.4	5850.0	5769.4	5630.9	5495.7	5458.1	5836.0	5902.6	6596.1	6204.2	4475.8
27.5°	6359.9	6379.2	6244.0	6072.2	5910.0	5812.4	6026.0	6075.4	6758.2	6458.7	4499.4
30°	6945.0	6913.9	6780.7	6584.3	6398.6	6262.3	6332.0	6345.9	6981.6	6795.8	4561.7
32.5°	7706.2	7620.3	7471.1	7127.6	6994.4	6763.6	6780.7	6798.0	7253.1	7129.7	4636.8
35°	8739.0	8734.7	8442.6	7979.9	7655.7	7369.1	7293.9	7307.9	7664.3	7625.7	4803.2
37.5°	9982.2	9999.4	9666.5	9200.6	8603.7	8148.5	7993.9	7996.1	8289.1	8310.6	5056.6
40°	10994.6	11039.6	10841.1	10526.5	9937.1	9225.3	8965.5	8941.8	9167.3	9140.5	5418.4
42.5°	11430.5	11472.3	11546.4	11655.9	11331.7	10744.4	10131.4	10163.7	10232.4	10044.5	5824.2
45°	11216.8	11283.4	11574.3	12250.7	12555.5	12358.0	11626.9	11514.2	11223.2	11026.8	6232.1
47.5°	10326.8	10489.0	10975.2	12101.5	13168.5	13836.4	13314.6	13165.4	12215.3	11744.0	6491.9
50°	8863.6	8873.1	9550.6	10990.3	12850.8	14769.3	15037.7	14926.1	13139.6	12146.6	6623.0
52.5°	6425.4	6636.9	7257.4	8924.7	11474.4	14627.6	16136.0	16089.8	14093.0	12352.7	6811.9
54°	4884.8	4925.6	5477.4	7131.8	9893.1	13849.3	16203.6	16214.3	14566.4	12477.2	6923.5
55°	4004.5	3906.8	4486.5	6075.4	8814.1	13161.1	15982.4	16034.0	14779.0	12541.6	7006.2
57.5°	1898.1	1899.1	2342.5	3204.6	5520.4	10219.4	14630.8	14813.3	14802.6	12652.2	7260.7
60°	960.8	967.3	1065.0	1479.4	2726.9	6793.7	12097.1	12532.0	13663.5	12668.3	7344.4
62.5°	672.0	664.6	648.4	711.8	1147.6	3452.6	9006.3	9384.2	11608.7	12055.3	7078.1
65°	575.4	559.3	514.3	504.6	579.7	1375.3	5609.5	6225.8	8863.6	10438.5	6320.2
67.5°	491.7	485.3	444.5	419.7	410.1	599.0	2894.4	3218.6	6058.2	7503.3	4787.1
70°	417.6	414.4	389.7	358.6	331.8	358.6	1073.6	1330.2	3376.4	4039.9	2258.8
72.5°	339.3	342.5	346.7	307.0	279.1	254.4	458.4	533.5	1412.8	1444.0	790.1
75°	297.4	294.2	294.2	267.4	233.0	189.0	252.3	271.6	432.7	401.5	183.6
77.5°	209.3	201.8	236.2	220.1	194.4	134.2	143.9	152.5	179.3	153.5	85.9
80°	144.9	144.9	151.4	197.6	175.0	97.7	88.1	94.4	106.3	91.2	49.4
82.5°	81.6	83.8	98.7	105.2	102.0	65.5	57.9	59.0	70.9	62.2	31.1
85°	9.7	16.1	56.9	55.8	41.9	29.0	32.2	33.3	44.0	38.7	18.2
87.5°	1.1	2.2	11.8	15.1	10.8	11.8	11.8	11.8	15.1	17.2	12.9
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°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	3549.3	3467.7	3273.3	3047.9	2904.1	2670.0	2472.5	2329.7	2294.2	2225.5	2246.0
5°	3545.0	3375.4	2979.2	2560.5	2113.9	1781.1	1533.1	1337.7	1251.8	1194.9	1155.2
7.5°	3547.1	3281.9	2646.4	1979.7	1446.1	1119.7	890.0	770.9	691.4	658.1	662.4
10°	3553.6	3176.7	2259.9	1466.5	975.9	723.6	583.0	526.0	499.2	494.9	493.8
12.5°	3568.6	3061.8	1890.6	1088.6	682.8	526.0	472.4	453.0	444.5	444.5	441.3
15°	3584.7	2935.2	1583.5	809.5	526.0	452.0	427.3	417.6	412.3	412.3	411.2
17.5°	3584.7	2789.2	1296.9	628.1	453.0	415.5	396.1	383.2	379.0	379.0	377.9
20°	3562.1	2619.5	1042.4	505.7	411.2	381.1	361.8	347.8	342.5	340.4	339.3
22.5°	3483.8	2393.0	829.9	434.8	376.9	351.0	326.4	310.2	306.0	303.9	304.9
25°	3344.2	2137.5	657.1	382.2	345.7	314.5	293.1	281.3	277.0	277.0	278.0
27.5°	3200.3	1870.2	520.7	342.5	308.1	280.2	263.1	255.5	254.4	257.7	258.8
30°	3067.2	1601.8	421.9	310.2	274.8	251.2	239.4	237.2	237.2	238.3	239.4
32.5°	2919.1	1366.7	353.2	282.3	248.0	227.6	221.2	221.2	223.3	223.3	225.5
35°	2825.7	1164.9	310.2	255.5	227.6	210.4	206.1	207.2	210.4	214.7	216.9
37.5°	2775.2	1003.8	282.3	234.1	208.3	196.5	192.2	194.4	201.8	209.3	210.4
40°	2779.5	882.5	259.8	215.8	193.3	180.4	177.1	183.6	191.1	198.6	199.7
42.5°	2826.8	792.3	238.3	194.4	180.4	162.1	161.1	167.4	170.7	178.2	179.3
45°	2882.6	726.8	215.8	171.7	156.8	140.6	141.7	147.1	151.4	163.2	165.3
47.5°	2899.8	681.7	190.1	146.0	128.8	123.5	124.6	127.7	136.3	147.1	148.2
50°	2919.1	653.8	165.3	123.5	109.5	108.4	109.5	111.7	117.0	121.4	120.3
52.5°	3001.8	652.7	144.9	107.4	93.4	95.5	96.6	95.5	91.2	84.8	82.7
54°	3079.1	656.0	135.2	99.8	85.9	89.1	88.1	82.7	71.9	65.5	62.2
55°	3141.3	659.2	129.9	94.4	81.6	82.7	83.8	73.0	59.0	52.6	50.5
57.5°	3263.7	651.7	117.0	82.7	71.9	67.6	66.5	48.3	32.2	27.9	25.7
60°	3202.5	588.4	106.3	70.9	61.2	54.7	45.1	26.8	16.1	11.8	11.8
62.5°	2962.0	499.2	94.4	57.9	50.5	41.9	23.6	15.1	7.5	4.3	3.2
65°	2649.6	419.7	84.8	46.2	39.7	26.8	12.9	9.7	3.2	0.0	0.0
67.5°	1970.0	311.3	71.9	36.5	30.0	17.2	8.6	5.4	1.1	0.0	0.0
70°	912.6	190.1	61.2	27.9	21.4	12.9	6.5	3.2	0.0	0.0	0.0
72.5°	262.0	119.2	50.5	20.4	15.1	10.8	5.4	2.2	1.1	0.0	0.0
75°	91.2	95.5	37.6	15.1	11.8	7.5	4.3	2.2	1.1	0.0	0.0
77.5°	54.7	77.3	23.6	12.9	9.7	6.5	4.3	2.2	1.1	1.1	0.0
80°	31.1	51.6	15.1	10.8	8.6	5.4	3.2	2.2	1.1	1.1	0.0
82.5°	17.2	24.7	11.8	9.7	7.5	5.4	3.2	2.2	1.1	1.1	1.1
85°	14.0	12.9	9.7	8.6	6.5	4.3	3.2	1.1	0.0	0.0	0.0
87.5°	10.8	8.6	8.6	8.6	6.5	4.3	3.2	1.1	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)