

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: P648098

Luminaire Tested: **GALN-SA8A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16909.7 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

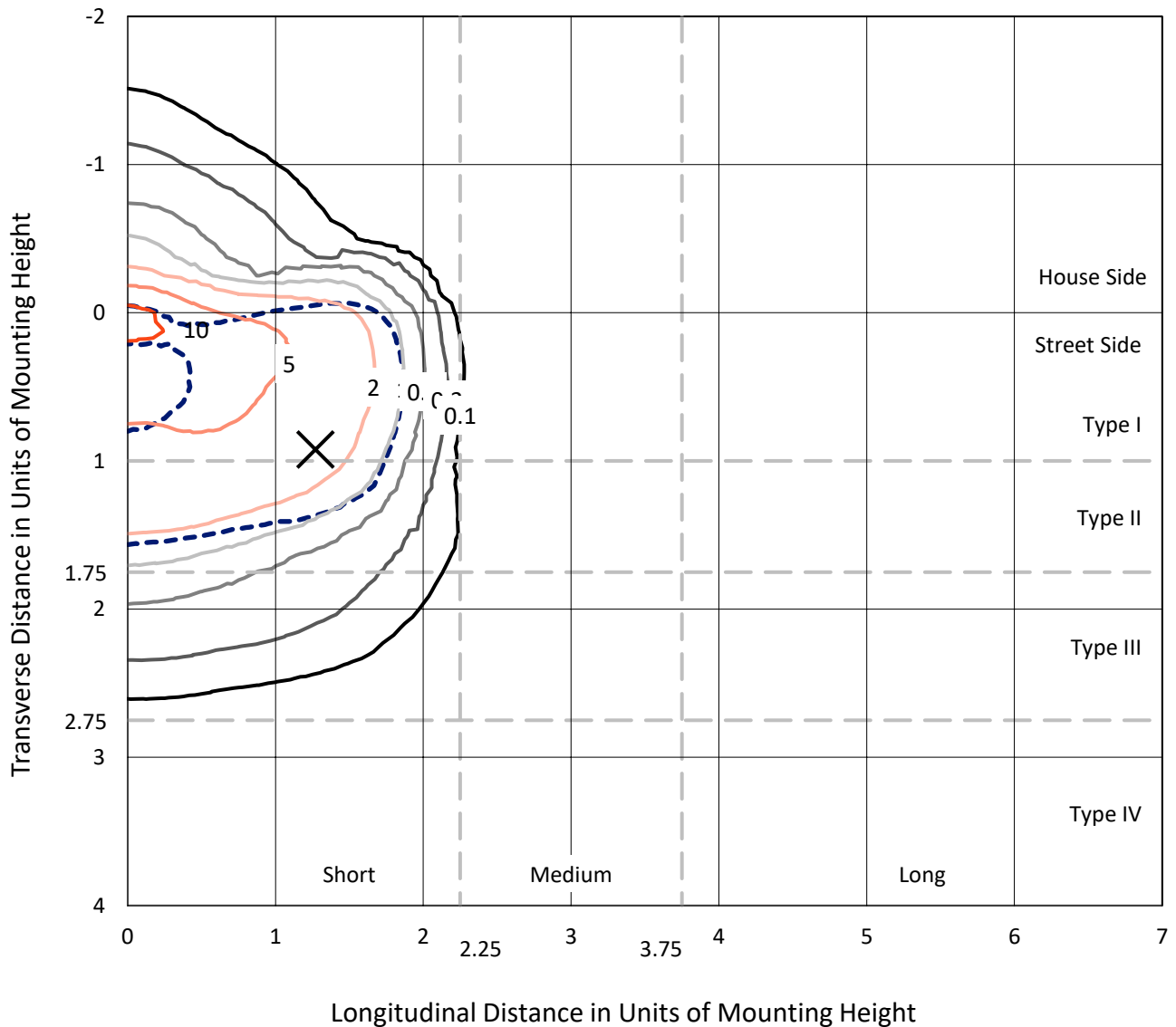
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

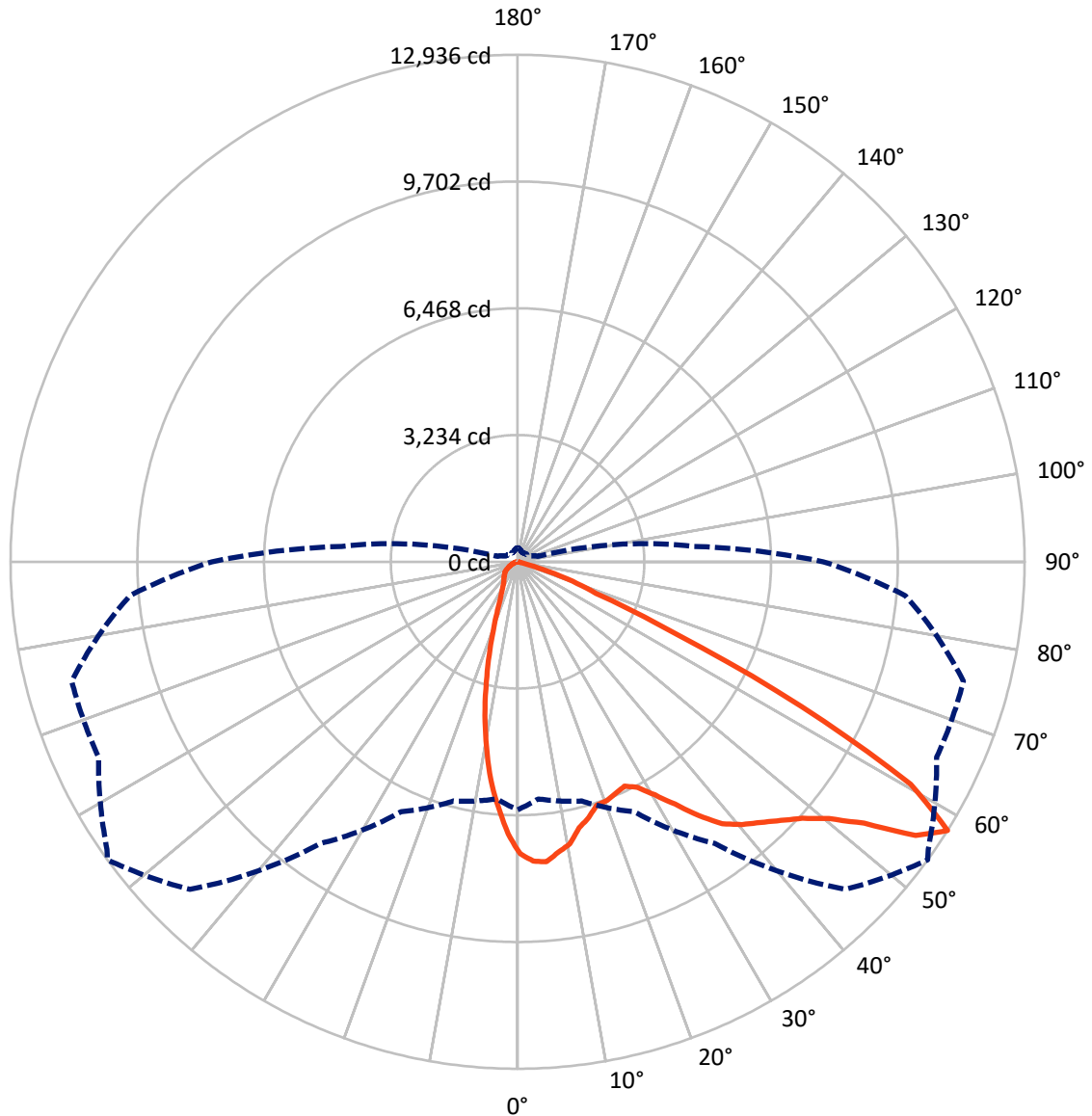
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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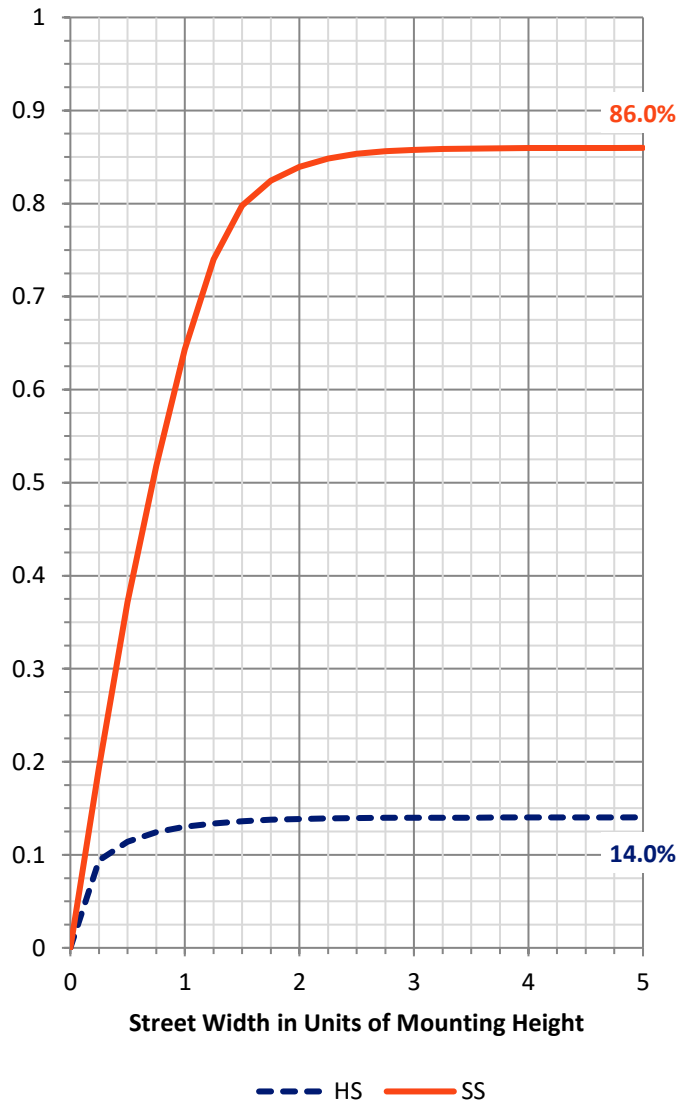
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2389.6	0.0	2389.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14520.0	0.0	14520.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	16909.7	0.0	16909.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.3	3.7
10°-20°	1330.8	7.9
20°-30°	1763.6	10.4
30°-40°	2563.0	15.2
40°-50°	3800.6	22.5
50°-60°	4752.5	28.1
60°-70°	1874.6	11.1
70°-80°	186.7	1.1
80°-90°	14.5	0.1
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°	16909.7	100.0
0°-180°	16909.7	100.0

Coefficient of Utilization

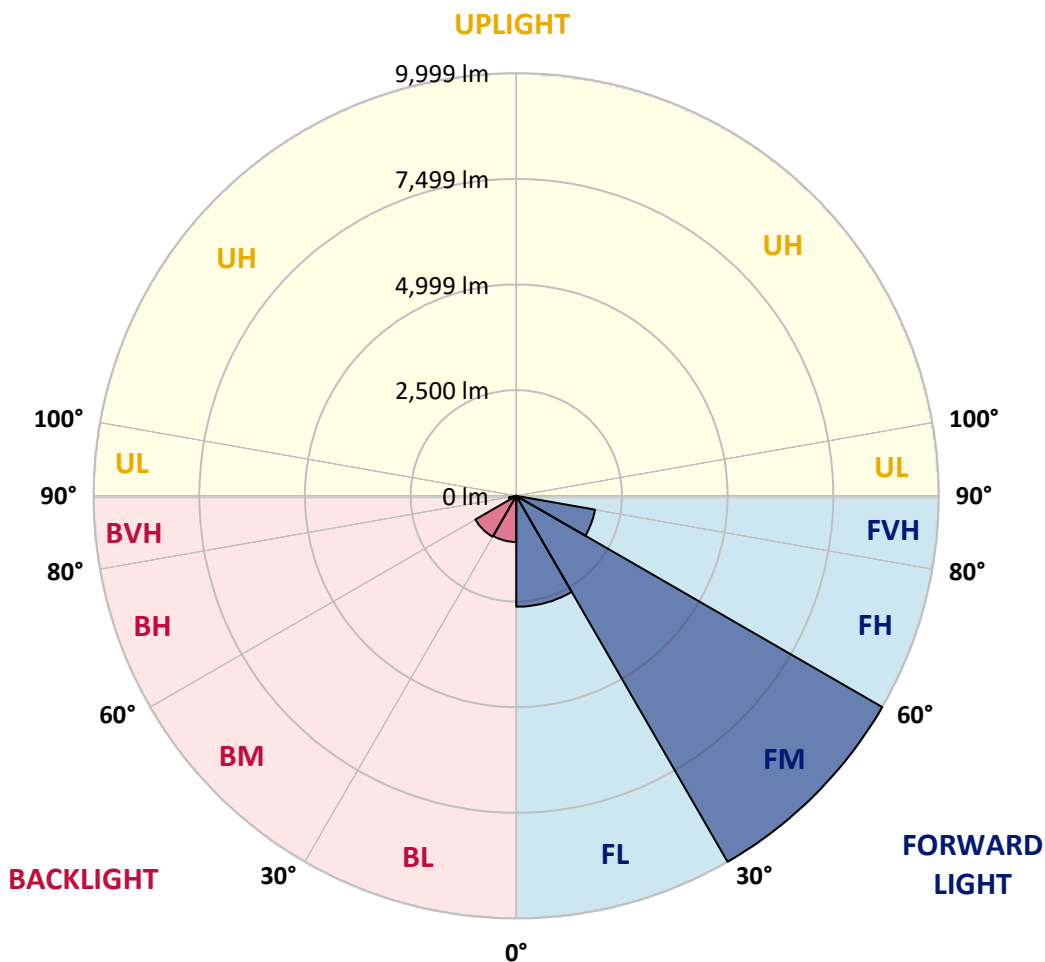


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.9	15.5			
FM (30°-60°)	9998.6	59.1			
FH (60°-80°)	1889.9	11.2			G2/5000
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	1092.9	6.5	B3/2500		
BM (30°-60°)	1117.4	6.6	B2/2500		
BH (60°-80°)	171.4	1.0	B1/500		G1/500
BVH (80°-90°)	7.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9
2.5°	7882.9	7801.1	7807.4	7779.1	7741.4	7769.6	7647.0	7675.4	7672.1	7505.5	7395.5
5°	7684.8	7772.8	7681.6	7757.1	7684.8	7763.4	7687.9	7631.3	7540.1	7417.5	7213.1
7.5°	7348.3	7263.4	7288.6	7382.9	7398.6	7574.7	7480.4	7552.7	7515.0	7272.8	6993.0
10°	6672.3	6653.4	6779.2	6905.0	7059.1	7247.7	7320.0	7279.2	7250.8	7159.7	6785.5
12.5°	6153.4	6206.9	6203.8	6411.3	6672.3	6779.2	6967.8	6961.6	7118.8	6949.0	6590.5
15°	5659.8	5688.1	5820.2	5949.1	6238.4	6543.4	6776.1	6807.5	6996.2	6876.7	6439.6
17.5°	5358.0	5317.0	5420.9	5574.9	5870.5	6269.8	6527.6	6603.1	6861.0	6835.8	6266.7
20°	5059.3	5059.3	5144.2	5326.5	5596.9	6046.6	6505.6	6483.6	6861.0	6788.6	6081.2
22.5°	4958.6	5008.9	5030.9	5169.3	5490.0	5876.8	6411.3	6452.2	6914.4	6766.6	5999.4
25°	5096.9	5030.9	5037.2	5147.3	5449.1	5795.0	6342.1	6433.3	7011.8	6876.7	5933.3
27.5°	5119.0	5185.0	5203.9	5279.4	5480.6	5820.2	6515.0	6700.6	7254.0	7134.5	5952.2
30°	5310.8	5376.8	5373.7	5502.6	5641.0	6024.6	6901.8	6939.6	7754.0	7458.4	6068.6
32.5°	5543.5	5612.6	5634.6	5785.6	5895.6	6398.8	7373.5	7470.9	8235.0	7967.7	6373.5
35°	5832.7	5807.6	5908.2	6059.2	6294.9	6945.8	7948.9	8112.4	8753.9	8628.0	6688.0
37.5°	6194.3	6162.9	6260.4	6505.6	6826.4	7593.6	8480.3	8587.2	9131.2	9241.2	7269.7
40°	6449.0	6461.6	6757.2	7087.3	7426.9	8209.8	8816.7	8920.5	9395.3	9813.5	7709.9
42.5°	6873.5	6952.1	7307.4	7709.9	8065.2	8672.1	9090.3	9190.9	9517.9	10272.6	8304.2
45°	7489.8	7455.3	7848.2	8297.9	8691.0	9153.2	9414.2	9379.6	9590.3	10728.5	8678.4
47.5°	8282.2	8288.4	8549.4	8933.1	9341.8	9571.4	9775.8	9653.1	9741.1	11209.6	9178.3
50°	8823.0	8870.2	9080.8	9473.9	9678.3	10030.5	10291.4	10216.0	10187.7	11498.8	9492.8
52.5°	8961.4	9102.8	9216.1	9706.5	10184.5	10741.0	11074.4	11234.7	10731.6	11596.3	9892.1
55°	7917.5	8043.2	8442.5	9115.5	10376.3	11866.8	12325.8	12329.0	11442.2	12030.2	10172.0
57.5°	6329.5	6074.8	6320.1	7033.8	8772.7	11819.5	12935.8	12788.0	11797.5	11775.5	9929.8
60°	4376.9	4314.0	4329.8	4612.7	6071.7	9401.6	11527.2	11718.9	10863.7	10206.5	7860.9
62.5°	3468.2	3414.7	3345.6	3314.1	3770.1	5857.9	8131.2	8401.7	7596.7	6618.9	4659.9
65°	2716.7	2685.3	2694.7	2820.4	2817.3	3323.6	4446.1	4336.0	3471.4	2565.8	1465.2
67.5°	1833.2	1880.3	1918.0	2298.5	2493.5	2314.2	2147.6	2084.7	1128.9	474.8	323.8
70°	1031.4	1037.6	1078.5	1437.0	1892.9	1795.4	1481.0	1481.0	562.8	173.0	185.5
72.5°	562.8	544.0	506.2	619.4	842.7	855.3	660.3	575.4	166.6	113.2	103.7
75°	273.6	270.4	232.7	191.8	182.4	151.0	116.4	106.9	75.5	72.3	62.9
77.5°	56.6	53.5	28.3	28.3	31.5	34.6	44.0	44.0	53.5	53.5	44.0
80°	0.0	0.0	3.1	12.6	22.0	31.5	37.7	37.7	44.0	44.0	34.6
82.5°	0.0	0.0	3.1	9.4	18.9	28.3	34.6	37.7	44.0	47.1	37.7
85°	0.0	0.0	0.0	6.3	15.7	22.0	18.9	18.9	15.7	12.6	6.3
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9	7448.9
2.5°	7338.9	7332.6	7187.9	7106.2	6958.4	6829.5	6725.7	6650.3	6650.3	6603.1	6559.1
5°	7131.3	7077.9	6769.7	6571.6	6291.8	6084.3	5942.8	5832.7	5659.8	5707.0	5521.5
7.5°	6873.5	6738.3	6329.5	6027.7	5641.0	5345.4	5043.5	4776.2	4518.4	4402.1	4465.0
10°	6596.9	6361.0	5810.7	5332.8	4851.7	4310.9	3958.7	3531.1	3267.0	3251.3	3182.0
12.5°	6304.4	6037.2	5367.4	4707.1	4075.0	3424.2	2886.5	2487.2	2308.0	2109.9	2147.6
15°	6084.3	5688.1	4873.7	4078.2	3238.6	2581.5	2040.7	1732.5	1562.7	1515.6	1499.8
17.5°	5845.3	5420.9	4370.6	3408.5	2540.6	1858.3	1468.4	1320.6	1254.6	1254.6	1245.1
20°	5596.9	5119.0	3870.7	2785.9	1905.4	1386.6	1176.0	1128.9	1125.6	1122.5	1122.5
22.5°	5433.4	4773.1	3417.9	2213.6	1437.0	1110.0	1021.9	1003.0	1015.6	1053.4	1053.4
25°	5260.5	4439.8	2917.9	1707.4	1113.1	952.8	902.4	915.0	946.4	981.0	968.5
27.5°	5084.4	4222.9	2446.3	1339.5	911.9	833.3	814.4	842.7	877.3	908.7	899.3
30°	5043.5	3990.2	1999.8	1015.6	782.9	726.3	738.9	764.1	798.7	811.3	823.8
32.5°	5106.4	3807.8	1638.2	833.3	682.3	666.6	666.6	679.2	701.2	729.5	720.0
35°	5285.6	3704.1	1295.5	723.2	625.7	610.0	606.8	619.4	632.0	641.4	632.0
37.5°	5559.2	3622.3	1059.6	641.4	588.0	562.8	556.6	553.4	566.0	569.2	575.4
40°	5908.2	3666.3	899.3	591.2	550.3	521.9	503.1	503.1	503.1	512.6	515.7
42.5°	6285.5	3726.1	776.7	562.8	515.7	481.1	462.2	455.9	462.2	474.8	471.7
45°	6681.7	3842.4	698.0	518.8	484.2	440.2	415.1	408.7	424.5	449.7	446.5
47.5°	7052.7	4009.0	638.3	490.5	452.8	411.9	380.5	374.2	402.5	437.1	440.2
50°	7423.8	4298.3	616.3	468.5	430.8	383.6	355.3	349.0	380.5	424.5	433.9
52.5°	7851.4	4609.6	600.6	440.2	405.6	361.6	330.2	323.8	358.5	415.1	418.2
55°	8131.2	4873.7	588.0	389.9	358.5	327.0	301.8	298.7	336.5	386.7	399.3
57.5°	7804.2	4505.9	544.0	339.6	305.0	289.2	267.2	267.2	298.7	345.9	355.3
60°	5917.7	2965.1	386.7	273.6	257.8	248.4	239.0	239.0	264.1	298.7	301.8
62.5°	3465.1	1597.3	248.4	220.1	220.1	210.7	195.0	195.0	220.1	239.0	242.1
65°	1028.2	512.6	201.2	188.6	185.5	169.8	154.1	151.0	169.8	179.2	176.1
67.5°	295.6	235.8	166.6	157.2	154.1	128.9	119.5	116.4	119.5	113.2	110.1
70°	176.1	160.4	128.9	132.1	116.4	94.4	84.9	81.7	75.5	66.0	59.7
72.5°	97.5	97.5	94.4	100.6	81.7	62.9	53.5	44.0	34.6	28.3	25.1
75°	59.7	62.9	66.0	69.1	53.5	40.9	34.6	22.0	12.6	6.3	6.3
77.5°	40.9	44.0	47.1	50.3	44.0	37.7	28.3	15.7	3.1	0.0	0.0
80°	31.5	34.6	40.9	44.0	47.1	50.3	37.7	15.7	3.1	0.0	0.0
82.5°	34.6	37.7	47.1	44.0	44.0	44.0	34.6	15.7	3.1	0.0	0.0
85°	6.3	9.4	15.7	15.7	22.0	28.3	22.0	6.3	0.0	0.0	0.0
87.5°	0.0	0.0	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)