

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: P648100

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23918.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

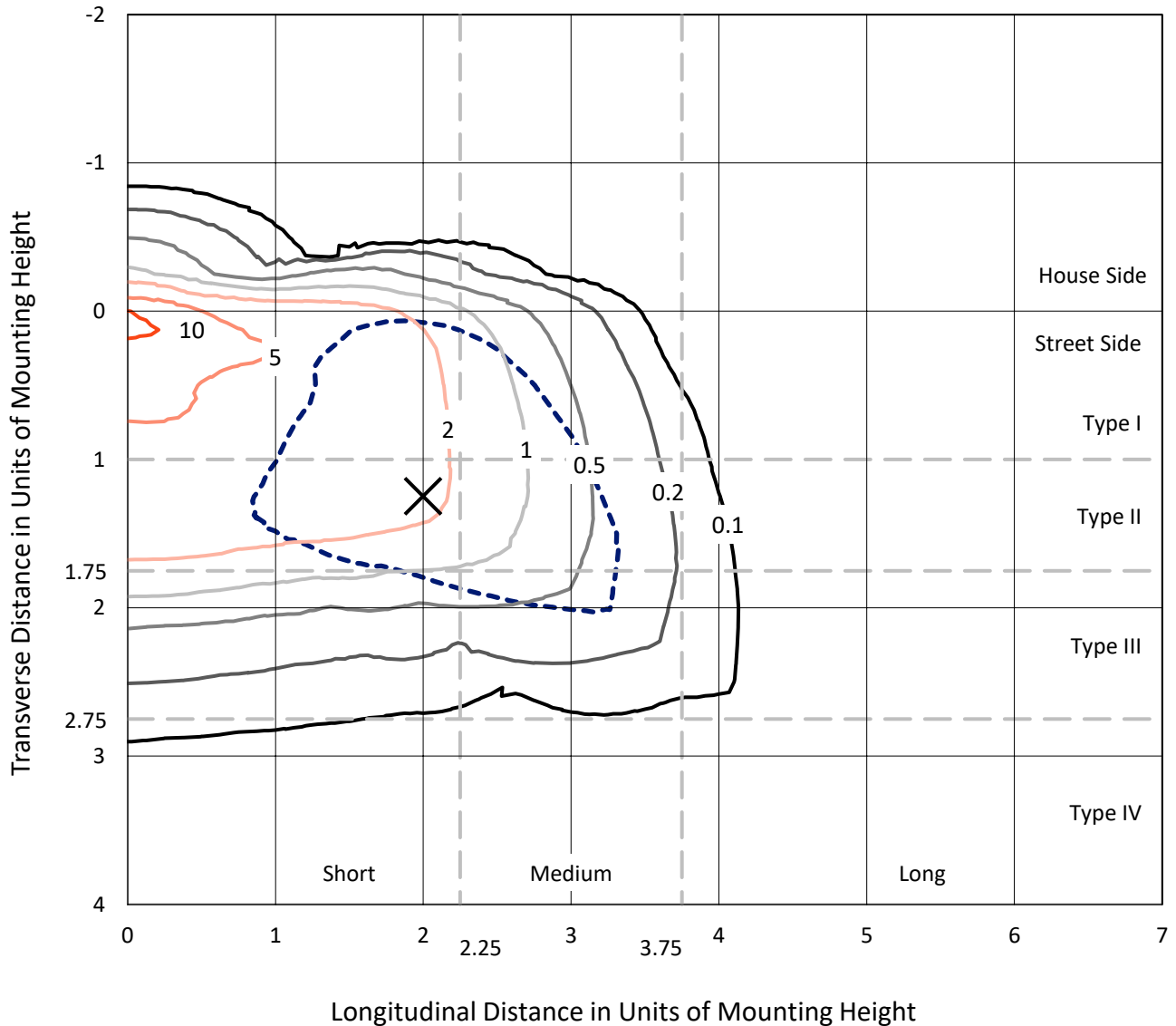
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

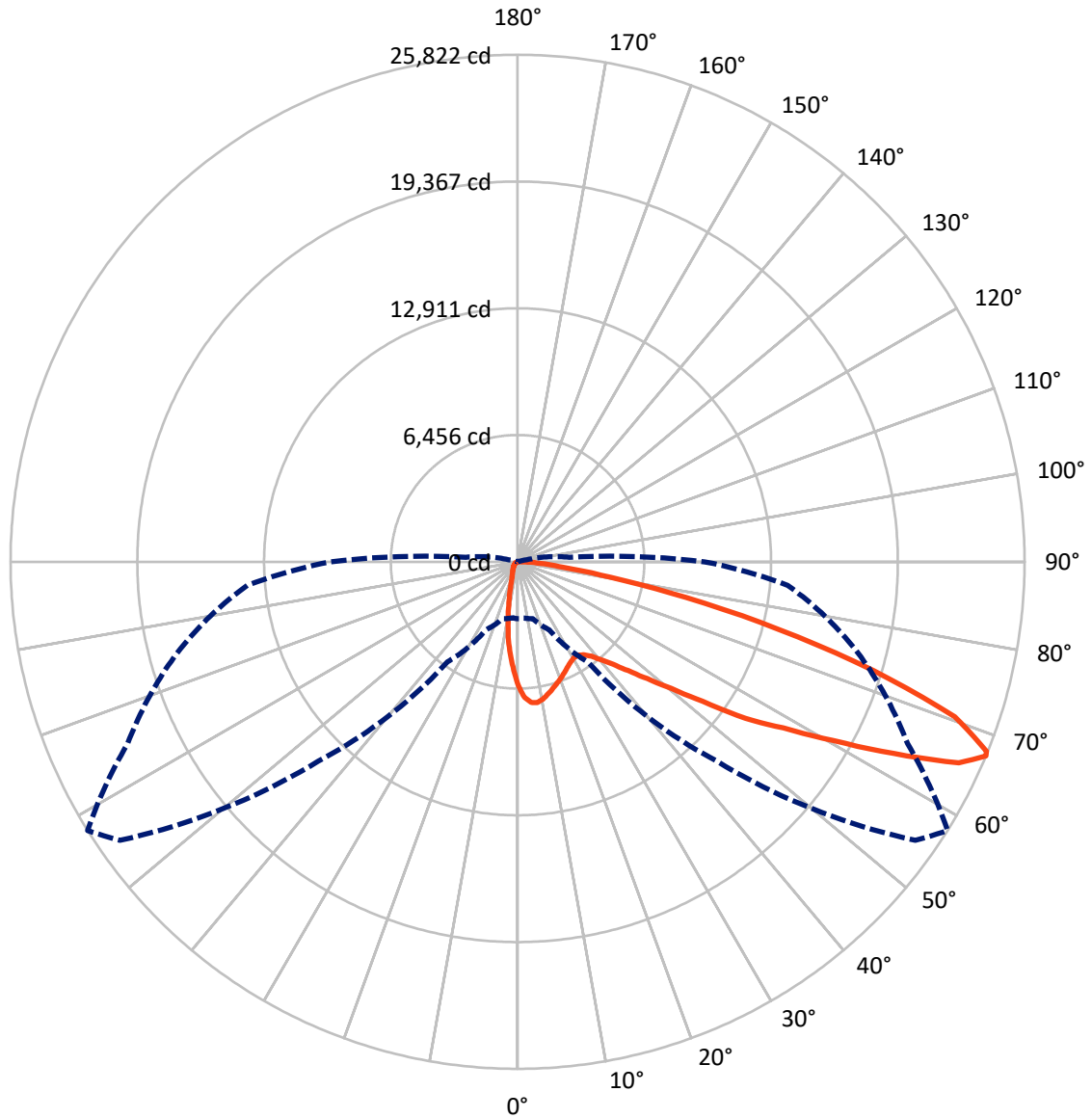
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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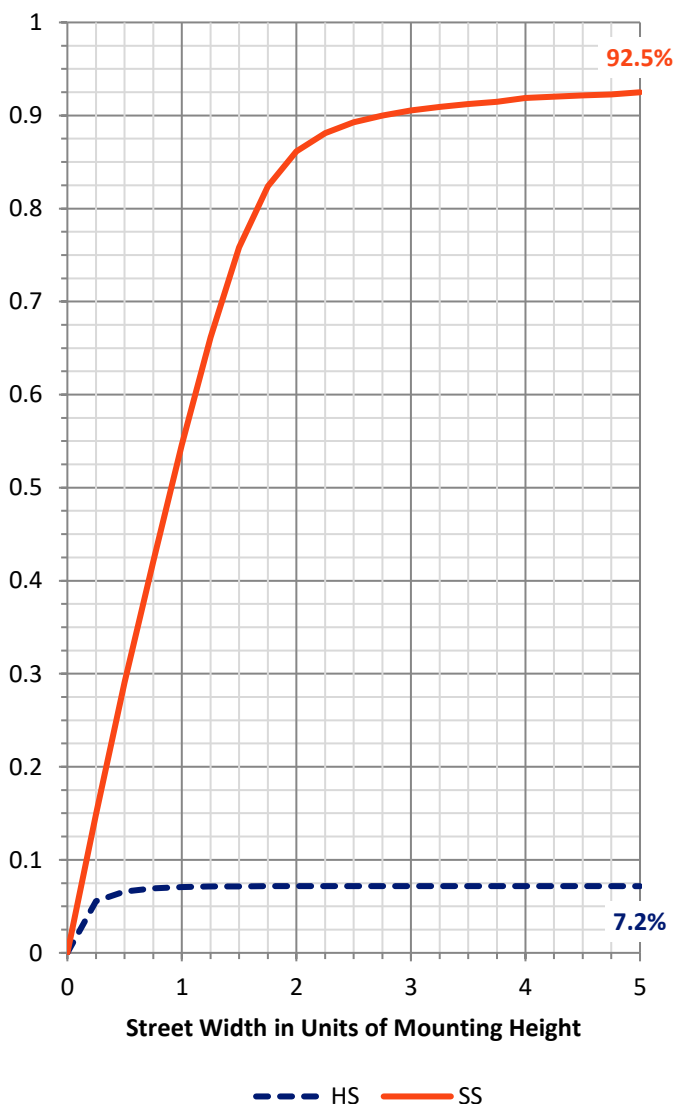
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.1	0.0	1726.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22192.2	0.0	22192.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	23918.3	0.0	23918.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.5	2.2
10°-20°	1111.2	4.6
20°-30°	1505.8	6.3
30°-40°	2088.5	8.7
40°-50°	3330.9	13.9
50°-60°	5757.7	24.1
60°-70°	6577.0	27.5
70°-80°	2742.0	11.5
80°-90°	290.7	1.2
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°	23918.3	100.0
0°-180°	23918.3	100.0

Coefficient of Utilization

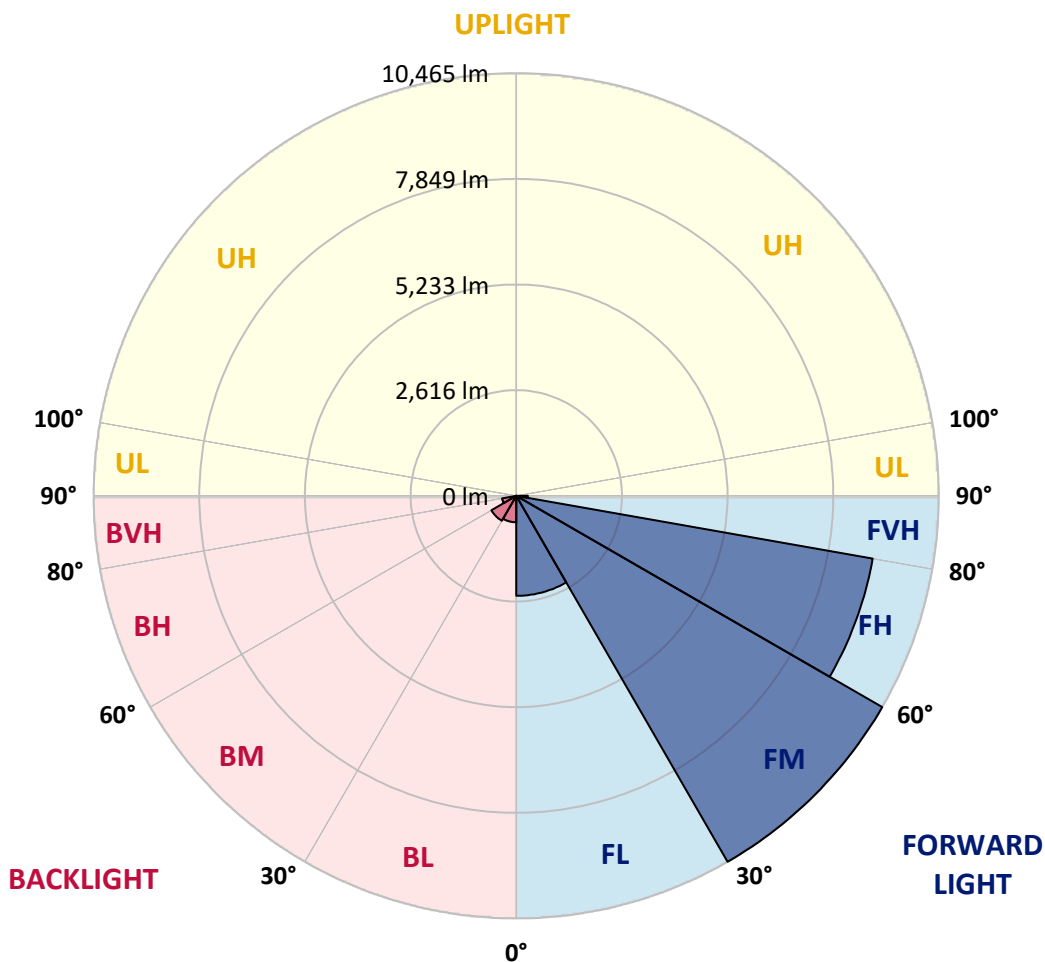


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2476.1	10.4			
FM (30°-60°)	10465.3	43.8			
FH (60°-80°)	8962.2	37.5			G4/12000
FVH (80°-90°)	288.6	1.2			G3/500
BL (0°-30°)	655.4	2.7	B2/1000		
BM (30°-60°)	711.7	3.0	B1/1000		
BH (60°-80°)	356.8	1.5	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5
2.5°	7358.6	7369.8	7328.3	7294.7	7208.4	7115.7	6992.7	6927.1	6815.2	6621.8	6407.7
5°	7531.3	7545.6	7539.3	7531.3	7497.7	7408.2	7251.6	7194.0	7029.4	6714.5	6327.7
7.5°	7147.7	7200.4	7206.8	7269.1	7328.3	7336.2	7277.1	7234.0	7082.2	6712.9	6185.5
10°	6639.4	6674.6	6725.7	6797.6	6939.9	7058.2	7115.7	7109.3	7021.4	6663.4	6019.2
12.5°	6126.3	6145.5	6223.8	6346.9	6521.1	6722.5	6876.0	6906.3	6907.9	6604.2	5880.2
15°	5685.2	5677.2	5738.0	5880.2	6124.8	6377.3	6652.2	6700.1	6776.9	6546.7	5750.7
17.5°	5308.0	5349.5	5359.2	5515.8	5741.2	6068.8	6418.9	6503.5	6657.0	6497.2	5643.6
20°	5074.6	5097.0	5117.8	5205.7	5408.7	5754.0	6199.9	6316.5	6545.1	6452.4	5523.8
22.5°	5006.0	5020.3	5002.7	5029.9	5173.8	5480.6	5961.7	6116.8	6438.0	6410.8	5426.3
25°	5058.6	5073.1	5031.5	4999.5	5049.1	5258.5	5731.6	5920.2	6351.7	6402.8	5352.7
27.5°	5186.5	5213.7	5156.1	5098.7	5069.8	5138.6	5550.9	5769.9	6292.6	6441.2	5319.2
30°	5386.3	5402.3	5359.2	5288.9	5223.3	5154.6	5456.6	5666.0	6276.6	6530.7	5316.0
32.5°	5603.7	5637.3	5613.3	5567.0	5482.3	5319.2	5483.8	5669.2	6315.0	6660.2	5356.0
35°	5872.2	5910.6	5932.9	5923.4	5814.7	5611.7	5656.5	5813.1	6417.2	6898.3	5464.6
37.5°	6135.9	6169.5	6295.8	6338.9	6243.0	6051.3	5992.1	6096.0	6642.6	7210.0	5661.2
40°	6438.0	6482.8	6660.2	6824.8	6778.4	6577.0	6468.4	6554.7	6987.8	7679.9	6033.6
42.5°	6727.3	6807.2	7077.4	7368.3	7411.4	7186.1	7114.1	7142.8	7499.3	8356.0	6553.1
45°	7138.1	7213.2	7561.7	7956.5	8159.4	7983.6	7910.1	7905.2	8201.0	9307.0	7395.4
47.5°	7731.0	7798.2	8209.0	8598.9	8960.2	8984.1	8845.1	8893.0	9083.3	10419.5	8427.9
50°	8458.3	8616.5	8886.7	9292.6	9775.3	10165.3	10208.4	10144.5	10307.6	11707.7	9668.2
52.5°	9514.8	9575.5	9823.3	10157.3	10723.1	11384.8	11897.8	11810.0	11758.8	12935.2	10921.3
55°	10302.7	10384.2	10769.5	11228.1	12057.7	12930.4	14042.8	14073.2	13427.4	14114.7	12147.2
57.5°	10064.6	10189.3	10772.7	11694.9	13518.6	15113.7	15941.6	15962.4	14971.4	15260.7	13531.3
60°	8841.9	8901.0	9736.9	10967.6	13643.2	17479.2	18634.8	18467.0	16542.6	16542.6	14754.1
62.5°	6270.2	6362.9	7040.6	8851.5	12321.4	18300.7	21860.2	21513.3	18706.7	17768.5	15482.9
65°	4007.0	3917.5	4366.6	5587.7	9179.1	17087.6	24668.4	24689.2	20742.9	18259.2	15084.9
67°	2902.6	2867.3	2996.9	3819.9	6223.8	14364.1	24727.5	25822.4	21913.0	17949.1	13812.7
67.5°	2654.8	2682.0	2776.3	3446.0	5654.8	13071.0	24459.0	25755.3	22176.7	17762.1	13352.3
70°	2012.3	1966.0	2068.2	2437.4	3390.0	8245.7	21040.2	23621.5	21849.0	15906.4	10668.8
72.5°	1480.0	1475.3	1617.5	1993.1	2610.1	4392.2	15794.6	18940.1	17850.0	12112.1	6717.7
75°	999.0	1043.7	1270.7	1665.4	2365.5	2848.2	10767.9	13740.7	12391.8	6877.6	2745.9
77.5°	569.0	572.2	818.3	1337.8	2124.2	2292.0	6380.5	8754.0	6559.5	2287.2	815.1
80°	246.2	270.1	406.0	971.8	1761.4	2029.8	3658.6	4810.9	2653.2	484.3	263.7
82.5°	91.1	107.1	179.0	597.7	1285.1	1671.9	2210.5	2296.8	899.8	171.0	164.7
85°	0.0	3.2	65.5	279.7	669.7	746.4	1476.8	1361.8	398.0	81.5	107.1
87.5°	0.0	0.0	0.0	28.7	87.9	278.1	458.7	511.5	95.9	28.7	25.6
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°	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5	6340.5
2.5°	6292.6	6188.7	5928.2	5667.7	5474.3	5312.8	5069.8	4937.2	4866.9	4763.0	4769.4
5°	6134.3	5923.4	5464.6	4990.0	4606.3	4232.3	3784.8	3604.2	3452.3	3366.0	3308.5
7.5°	5899.4	5587.7	4908.4	4275.5	3685.7	3032.0	2541.3	2213.7	1993.1	1911.6	1833.2
10°	5642.1	5228.1	4344.2	3466.7	2648.4	1973.9	1558.3	1257.9	1150.8	1051.7	1061.3
12.5°	5403.9	4900.4	3826.4	2736.4	1855.6	1254.7	978.2	855.1	820.0	808.8	808.8
15°	5208.9	4587.2	3270.1	2057.0	1272.3	901.5	783.2	749.6	736.8	733.6	733.6
17.5°	5001.1	4289.9	2768.3	1520.0	925.4	754.4	714.4	692.1	687.2	684.1	684.1
20°	4815.8	3991.0	2292.0	1131.6	748.0	679.3	653.7	639.3	634.5	631.3	632.9
22.5°	4639.9	3725.7	1844.4	855.1	658.5	618.6	593.0	578.6	569.0	561.0	562.6
25°	4483.3	3469.9	1483.2	700.1	593.0	557.8	532.2	511.5	490.7	481.1	479.5
27.5°	4373.0	3246.2	1155.6	599.4	533.8	495.5	463.5	437.9	410.8	396.4	393.2
30°	4281.9	3019.2	914.2	529.1	474.7	437.9	398.0	361.2	332.5	318.1	311.6
32.5°	4222.7	2803.5	720.8	471.5	425.2	380.4	335.7	298.9	266.9	252.5	249.3
35°	4213.2	2622.8	589.8	423.5	380.4	332.5	286.1	246.2	219.0	204.6	201.4
37.5°	4281.9	2483.8	493.9	385.2	343.7	290.9	239.8	203.0	179.0	167.8	166.2
40°	4465.7	2395.9	428.4	353.2	310.1	252.5	204.6	172.7	148.6	137.4	137.4
42.5°	4815.8	2399.1	385.2	322.8	276.5	215.8	174.2	143.8	123.1	113.5	110.2
45°	5362.4	2507.8	348.4	292.5	244.5	187.0	148.6	118.3	97.5	89.5	89.5
47.5°	6094.4	2723.5	316.5	262.1	215.8	159.8	126.3	95.9	78.3	70.3	70.3
50°	7051.8	3070.4	289.3	236.5	191.8	137.4	102.3	78.3	60.8	54.3	52.8
52.5°	8052.3	3498.7	257.3	214.2	164.7	116.7	83.1	60.8	46.4	41.6	39.9
55°	9156.8	3917.5	227.0	191.8	134.3	97.5	65.5	47.9	33.6	28.7	28.7
57.5°	10270.8	4328.3	190.2	159.8	105.5	72.0	51.1	35.2	22.4	17.6	17.6
60°	11213.8	4460.9	161.5	129.4	79.9	51.1	36.7	22.4	12.8	8.0	8.0
62.5°	11343.2	4013.3	135.9	99.1	57.6	35.2	19.2	12.8	4.8	3.2	3.2
65°	10640.0	3260.6	113.5	75.1	38.4	17.6	8.0	4.8	1.6	0.0	0.0
67°	9534.0	2643.6	92.7	55.9	27.2	11.2	4.8	1.6	0.0	0.0	0.0
67.5°	9251.1	2520.6	89.5	52.8	24.0	9.6	3.2	1.6	0.0	0.0	0.0
70°	7259.6	1887.6	64.0	31.9	14.4	6.4	0.0	0.0	0.0	0.0	0.0
72.5°	4512.0	1067.7	46.4	19.2	9.6	3.2	0.0	0.0	0.0	0.0	0.0
75°	1705.4	374.0	31.9	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	530.6	142.3	19.2	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.0	54.3	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.2	22.4	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.7	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	3.2	1.6	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)