

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: P647057

Luminaire Tested: **GALN-SA7C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31539.2 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 IV - Short
BUG Rating: B2 - U0 - G5

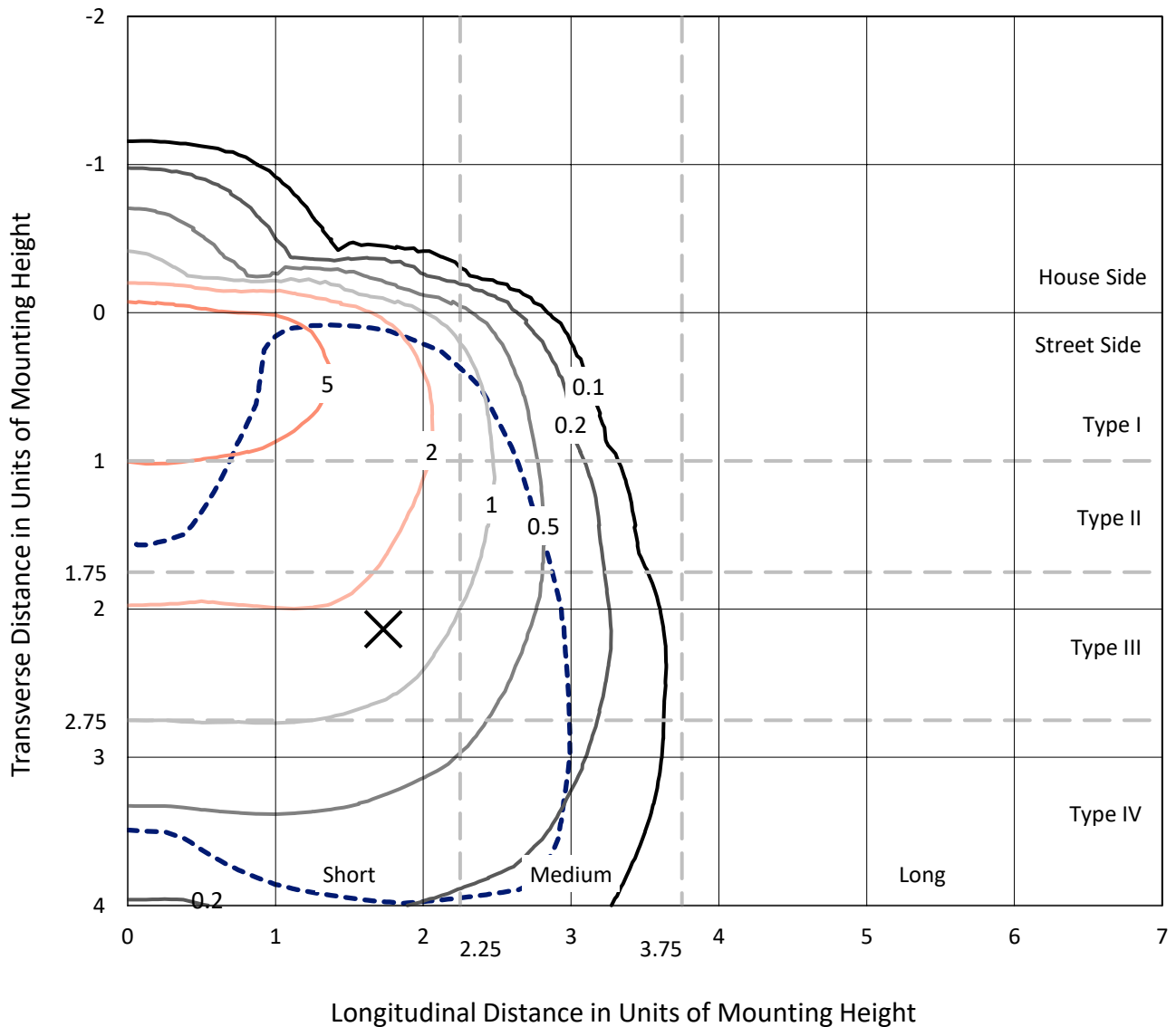
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

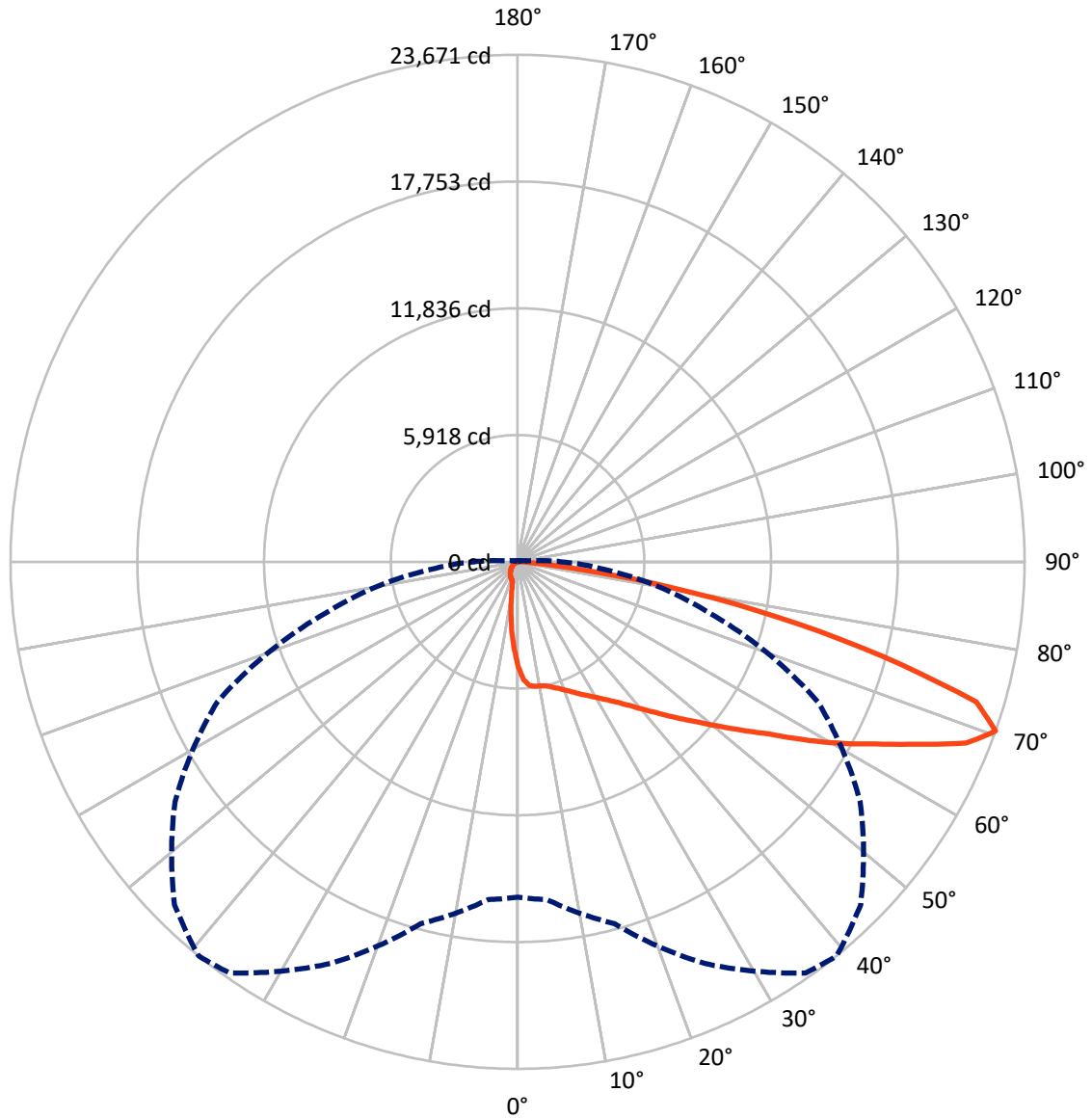
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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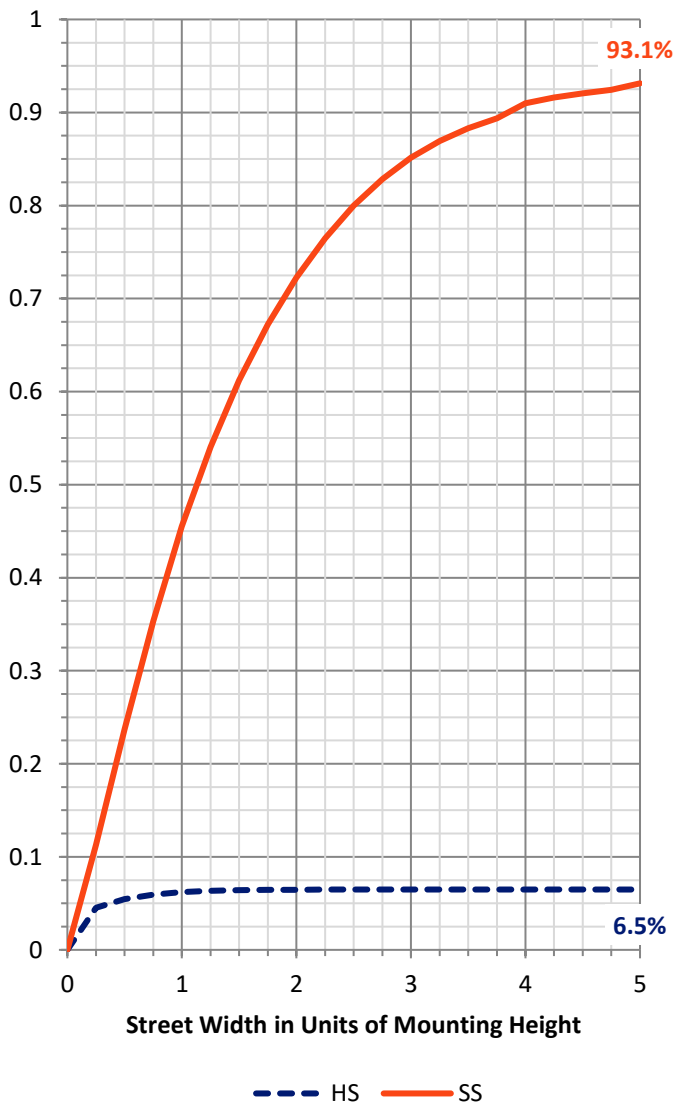
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.5	0.0	2056.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29482.7	0.0	29482.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	31539.2	0.0	31539.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.7	1.3
10°-20°	1090.8	3.5
20°-30°	1827.4	5.8
30°-40°	2834.0	9.0
40°-50°	4491.1	14.2
50°-60°	6583.3	20.9
60°-70°	8438.2	26.8
70°-80°	5302.3	16.8
80°-90°	552.4	1.8
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°	31539.2	100.0
0°-180°	31539.2	100.0

Coefficient of Utilization



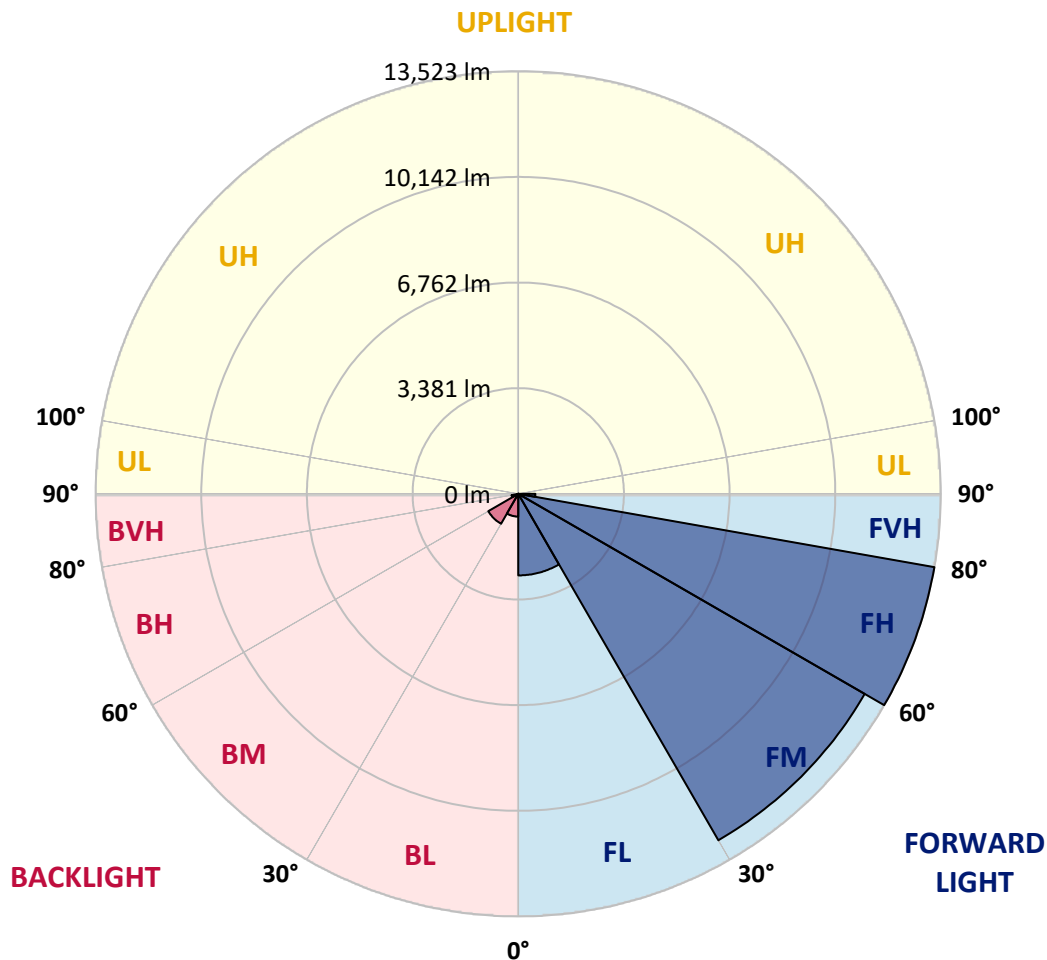
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.7	8.3			
FM (30°-60°)	12801.7	40.6			
FH (60°-80°)	13523.0	42.9			G5
FVH (80°-90°)	548.3	1.7			G4/750
BL (0°-30°)	728.2	2.3	B2/1000		
BM (30°-60°)	1106.7	3.5	B2/2500		
BH (60°-80°)	217.5	0.7	B1/500		G1/500
BVH (80°-90°)	4.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2
2.5°	5686.3	5667.2	5641.8	5612.2	5527.4	5512.5	5461.7	5353.5	5224.3	5118.3	4972.0
5°	5955.5	5966.1	5947.0	5894.0	5832.6	5796.5	5732.9	5565.5	5398.1	5184.0	4944.5
7.5°	6016.9	6038.1	6014.8	5964.0	5904.6	5866.5	5815.6	5671.4	5476.5	5232.8	4904.2
10°	6010.5	6036.0	6021.2	5974.5	5925.8	5889.7	5834.7	5720.2	5563.4	5306.9	4916.9
12.5°	6000.0	6033.9	6031.8	6008.4	5968.2	5940.6	5906.7	5805.0	5658.7	5415.0	4986.9
15°	5970.3	6012.7	6050.9	6069.9	6072.0	6072.0	6029.6	5921.5	5781.7	5557.0	5078.1
17.5°	5983.0	6031.8	6127.1	6182.3	6220.4	6216.2	6171.6	6055.1	5900.4	5703.3	5173.4
20°	6061.4	6127.1	6260.6	6370.9	6409.0	6396.3	6337.0	6201.3	6025.4	5828.3	5266.7
22.5°	6254.3	6313.6	6481.0	6610.3	6637.9	6604.0	6519.2	6334.9	6175.9	5964.0	5379.0
25°	6542.5	6612.4	6767.2	6864.6	6864.6	6845.6	6726.9	6510.7	6345.4	6152.6	5525.2
27.5°	6892.2	6951.6	7104.2	7191.1	7140.2	7085.1	6966.4	6705.7	6546.7	6389.9	5701.1
30°	7246.2	7284.3	7445.4	7483.5	7430.5	7360.6	7233.4	6972.8	6832.8	6712.1	5955.5
32.5°	7581.0	7663.7	7797.2	7788.7	7716.7	7682.8	7566.2	7288.6	7210.1	7197.4	6311.5
35°	7915.9	7979.5	8098.2	8127.9	8064.3	8057.9	7973.1	7767.5	7769.6	7852.3	6866.8
37.5°	8204.1	8261.4	8401.2	8466.9	8479.7	8511.4	8477.5	8341.8	8534.8	8761.5	7602.2
40°	8445.8	8526.2	8704.3	8818.8	8950.2	9066.7	9073.1	9102.8	9490.6	9880.5	8562.3
42.5°	8634.4	8746.7	9005.3	9217.2	9518.1	9666.5	9785.2	9948.4	10601.1	11184.0	9694.1
45°	8880.2	9009.5	9331.6	9664.4	10134.9	10378.6	10544.0	10980.5	11906.7	12701.4	10855.4
47.5°	9287.2	9355.0	9683.4	10168.8	10787.6	11135.2	11457.4	12118.6	13307.6	14019.7	11821.9
50°	9810.6	9855.2	10103.1	10777.1	11578.1	12036.0	12623.1	13400.8	14761.5	15113.3	12368.7
52.5°	10389.2	10404.0	10590.5	11446.8	12464.1	13040.6	13697.6	14657.6	15946.2	15893.3	12731.1
55°	11061.0	11039.8	11198.8	12173.7	13513.2	14172.3	14937.4	15944.1	16974.1	16446.4	12938.8
57.5°	11830.3	11773.2	11927.9	13138.0	14856.9	15645.3	16423.1	17054.7	17771.0	16910.5	13038.4
60°	12635.7	12521.3	12705.7	14221.1	16440.0	17188.2	17834.6	18004.1	18610.3	17279.3	12866.7
62.5°	13278.0	13280.1	13623.4	15374.0	18067.7	18722.6	19066.0	19218.6	19333.0	17198.8	11963.9
65°	14280.4	14314.3	14863.2	16974.1	19951.9	20519.8	20755.1	20259.2	19364.8	16198.5	10607.5
67.5°	15314.6	15422.8	16427.3	19178.3	22128.4	22586.3	22283.2	20460.5	18500.1	13915.9	8043.1
70°	15651.6	15829.7	17484.9	20695.8	23434.0	23671.3	22645.6	19521.6	15465.1	9304.1	4048.0
72.5°	14341.8	14630.1	16876.6	20142.6	22601.1	22395.5	20261.3	16372.2	9831.8	3533.0	1235.6
75°	10113.7	10240.9	14026.0	16709.2	18178.0	17595.1	15412.1	10554.5	4043.8	991.9	423.8
77.5°	5222.1	5160.7	8341.8	11086.5	12964.3	12360.2	10092.5	5463.8	1532.3	413.3	262.8
80°	2700.1	2744.6	3609.3	5809.2	7913.8	7282.2	5381.1	2532.7	816.0	228.9	201.3
82.5°	1513.2	1420.0	2074.9	2536.9	3700.5	2901.4	2064.3	1793.0	356.0	137.7	190.7
85°	275.5	288.2	1138.1	1371.3	1284.4	816.0	665.5	1197.4	103.8	76.3	133.5
87.5°	4.2	4.2	220.4	394.2	250.1	114.5	209.8	171.6	21.2	29.7	23.3
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°	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2
2.5°	4897.9	4817.3	4666.9	4518.5	4329.9	4175.2	4071.4	3963.2	3853.1	3861.5	3887.0
5°	4813.1	4673.3	4376.5	4062.8	3761.9	3490.6	3223.6	2984.1	2886.6	2797.6	2801.8
7.5°	4728.3	4531.2	4096.7	3605.1	3149.4	2687.4	2352.5	2077.0	1930.7	1820.6	1788.8
10°	4690.2	4429.5	3840.3	3164.3	2517.8	2013.4	1583.1	1358.5	1184.8	1129.6	1144.4
12.5°	4707.2	4378.6	3609.3	2765.8	1996.5	1403.1	1102.1	987.6	949.5	943.1	938.9
15°	4739.0	4342.6	3382.6	2325.0	1466.6	1042.7	926.1	905.0	900.8	896.5	898.6
17.5°	4781.3	4310.8	3140.9	1911.7	1125.4	911.3	877.4	866.9	864.7	864.7	864.7
20°	4823.7	4274.8	2871.7	1542.9	938.9	860.4	839.3	833.0	830.8	830.8	828.6
22.5°	4872.5	4243.0	2598.4	1212.3	864.7	824.4	805.4	801.1	799.0	796.9	796.9
25°	4942.4	4202.8	2308.0	991.9	818.1	790.5	771.5	767.2	765.1	756.6	758.7
27.5°	5035.6	4173.1	2009.2	856.2	775.7	748.2	735.4	729.1	724.8	718.5	720.6
30°	5162.8	4147.6	1691.3	782.1	726.9	703.6	690.9	686.7	682.5	676.1	676.1
32.5°	5383.2	4158.2	1356.4	722.7	682.5	654.9	642.1	637.9	633.7	627.3	627.3
35°	5713.9	4219.7	1085.2	671.8	629.5	601.9	589.2	589.2	582.9	574.3	572.2
37.5°	6254.3	4376.5	871.1	623.1	578.6	553.2	538.3	534.1	527.7	515.0	512.9
40°	6892.2	4620.2	733.3	574.3	532.0	506.5	493.8	481.1	464.2	451.4	449.3
42.5°	7693.4	4870.3	635.8	525.6	487.5	464.2	449.3	428.1	402.7	385.7	383.6
45°	8528.4	5099.2	570.1	481.1	445.1	426.0	409.0	375.1	343.3	322.1	320.0
47.5°	9151.5	5141.6	517.1	438.7	409.0	389.9	366.7	324.2	281.9	262.8	256.4
50°	9446.1	4936.0	462.0	396.4	373.0	351.8	322.1	273.4	226.8	203.4	199.2
52.5°	9549.9	4580.0	417.5	358.1	337.0	311.6	275.5	220.4	178.1	154.7	152.6
55°	9507.6	4130.6	377.2	322.1	294.6	264.9	228.9	175.9	131.4	112.4	108.1
57.5°	9285.0	3558.4	337.0	286.1	252.2	222.5	182.3	131.4	89.0	72.0	69.9
60°	8685.2	2778.5	296.7	245.9	214.1	182.3	144.2	93.3	55.1	40.2	40.2
62.5°	7672.1	2062.2	258.5	205.6	180.2	146.3	101.7	59.4	29.7	21.2	19.1
65°	6411.1	1521.7	216.2	173.8	150.5	114.5	72.0	36.0	14.8	6.3	4.2
67.5°	4474.0	938.9	180.2	142.0	122.9	82.7	44.5	14.8	6.3	0.0	0.0
70°	2032.5	447.2	137.7	108.1	93.3	59.4	23.3	8.5	4.2	0.0	0.0
72.5°	631.6	235.2	97.5	78.4	63.6	38.1	12.7	6.3	4.2	0.0	0.0
75°	292.5	150.5	61.5	42.4	36.0	19.1	8.5	4.2	2.1	0.0	0.0
77.5°	218.3	116.6	36.0	23.3	19.1	12.7	6.3	4.2	2.1	0.0	0.0
80°	190.7	59.4	21.2	14.8	10.6	8.5	4.2	2.1	0.0	0.0	0.0
82.5°	171.6	29.7	12.7	8.5	6.3	4.2	2.1	2.1	0.0	0.0	0.0
85°	93.3	17.0	8.5	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.0	8.5	6.3	4.2	4.2	2.1	2.1	2.1	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)