

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: P647678

Luminaire Tested: **GALN-SA9D-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43963.9 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

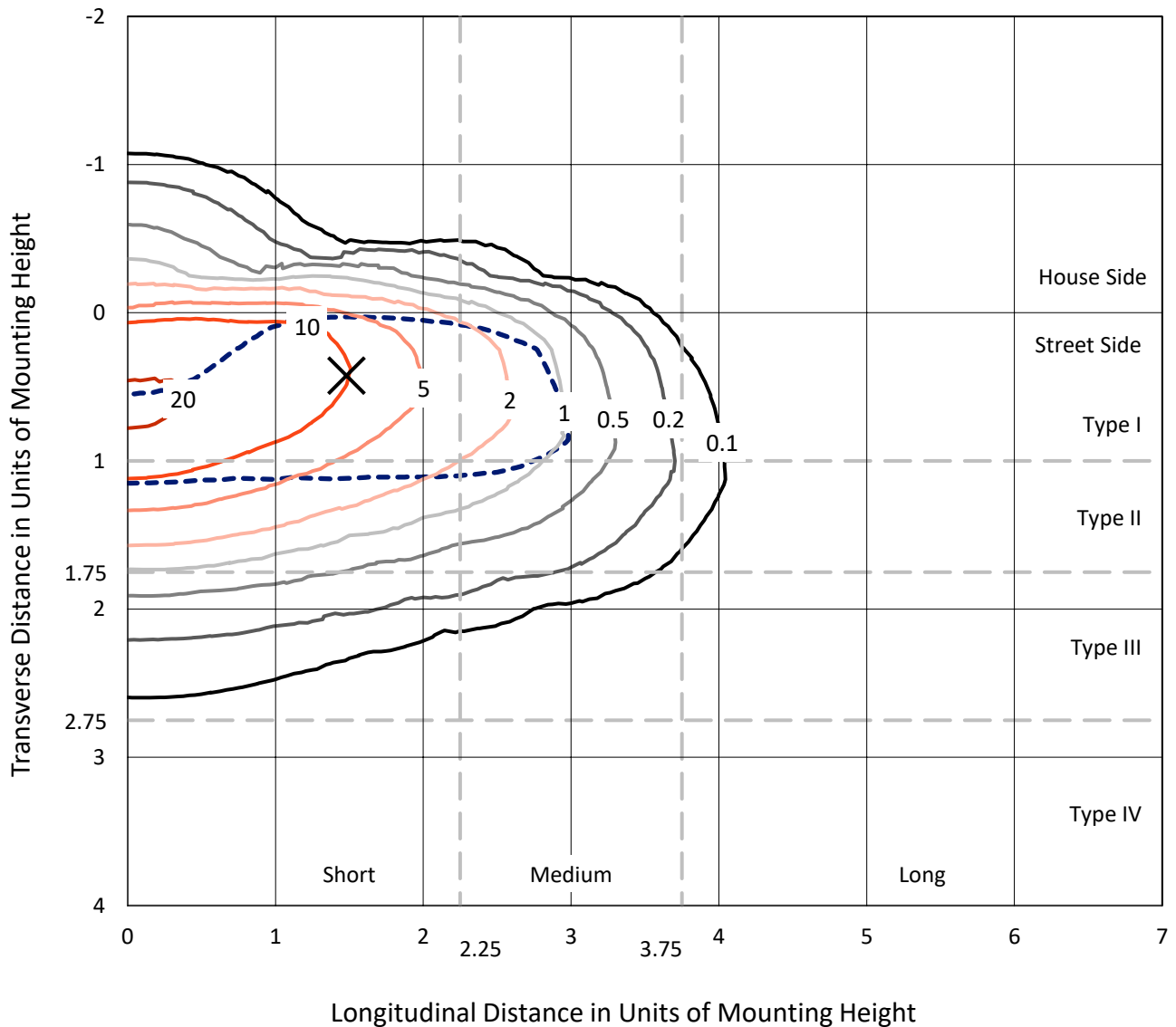
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

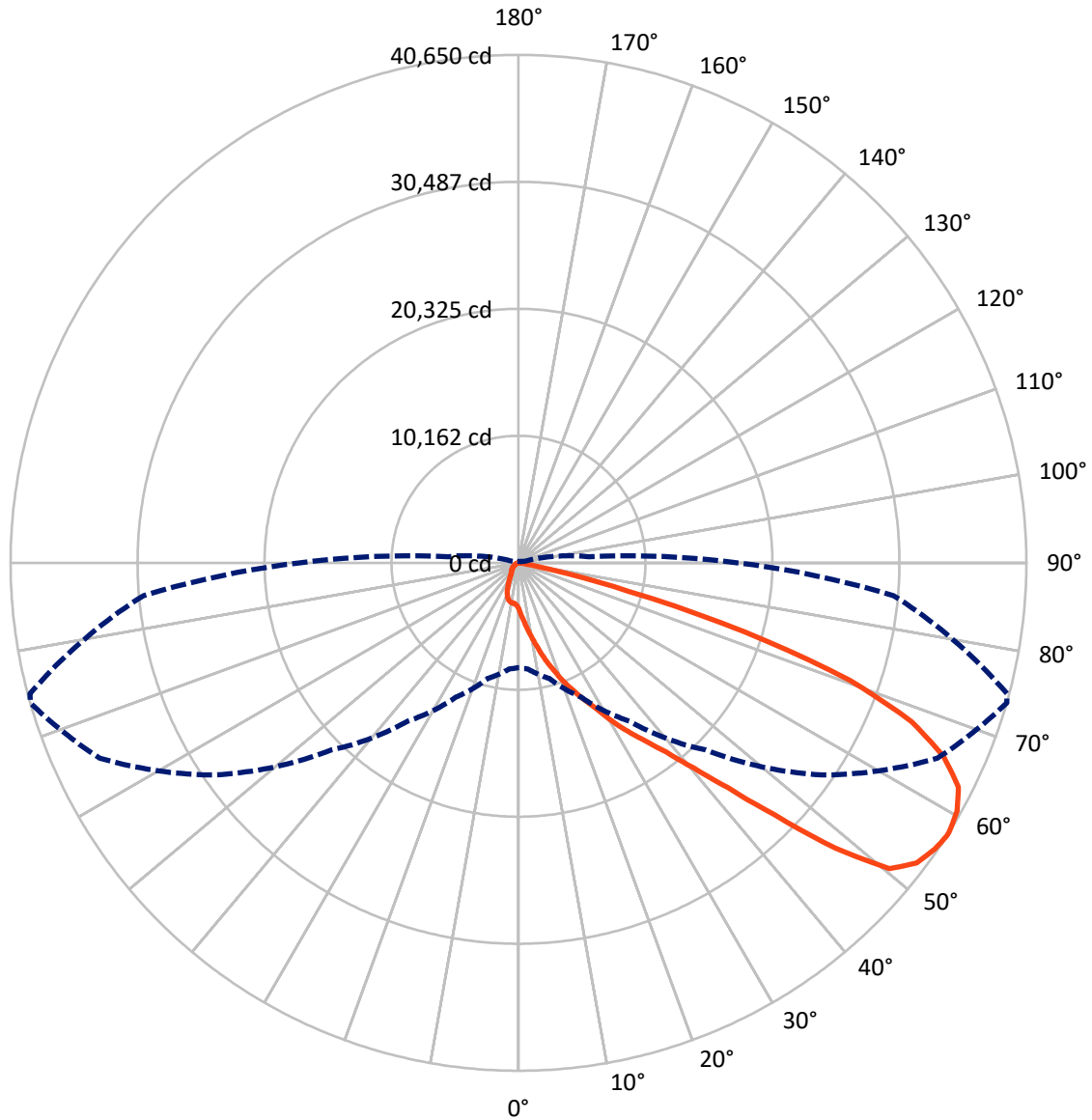
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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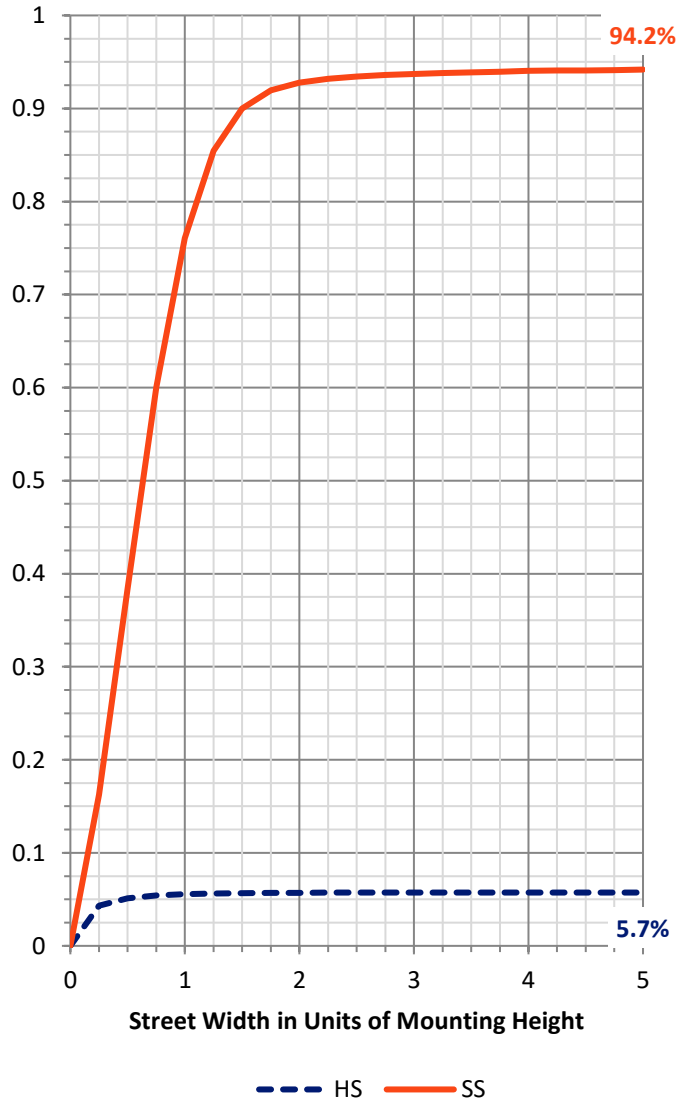
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2535.7	0.0	2535.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	41428.2	0.0	41428.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	43963.9	0.0	43963.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	1.0
10°-20°	1751.7	4.0
20°-30°	3748.2	8.5
30°-40°	6889.2	15.7
40°-50°	10561.3	24.0
50°-60°	11172.4	25.4
60°-70°	7295.9	16.6
70°-80°	1993.5	4.5
80°-90°	107.3	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°	43963.9	100.0
0°-180°	43963.9	100.0

Coefficient of Utilization

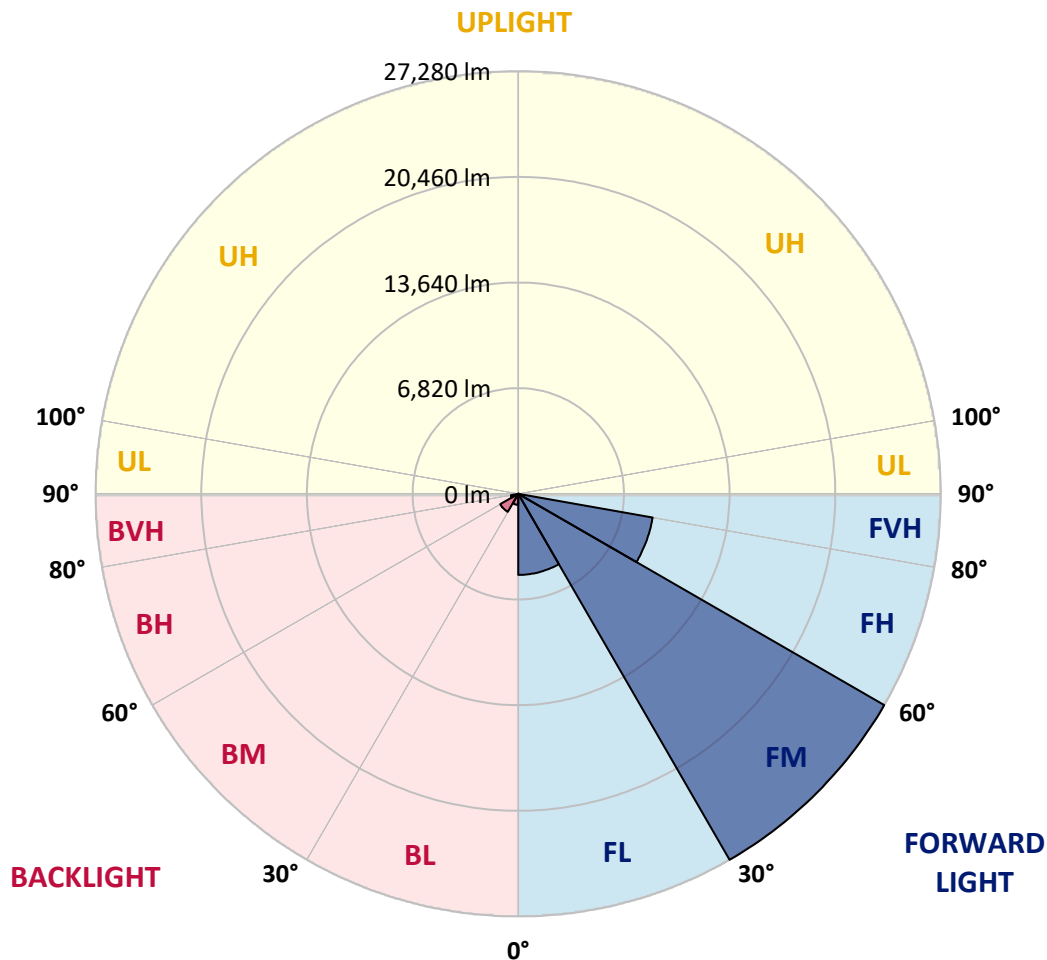


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5236.0	11.9			
FM (30°-60°)	27280.4	62.1			
FH (60°-80°)	8813.3	20.0			G4/12000
FVH (80°-90°)	98.5	0.2			G1/100
BL (0°-30°)	708.3	1.6	B2/1000		
BM (30°-60°)	1342.5	3.1	B2/2500		
BH (60°-80°)	476.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9
2.5°	5387.8	5339.2	5242.1	5208.8	5066.1	4844.5	4650.2	4389.2	4182.8	4161.5	3912.6
5°	7215.1	7105.8	7060.3	6841.8	6498.7	6177.0	5624.5	5205.7	4723.1	4686.6	4185.8
7.5°	8975.6	8823.9	8778.3	8571.9	8171.2	7664.3	6948.0	6186.1	5421.2	5351.4	4553.1
10°	10250.5	10271.7	10189.8	10053.2	9728.4	9212.4	8329.1	7287.9	6198.2	6110.2	4965.9
12.5°	11164.2	11161.1	11176.3	11173.3	11000.2	10608.6	9679.8	8480.8	7054.2	6881.2	5439.4
15°	11759.1	11768.2	11813.7	11971.5	11989.8	11747.0	10972.9	9622.1	8046.8	7831.3	5952.4
17.5°	12360.0	12423.8	12496.7	12645.4	12779.0	12681.9	12135.5	10812.1	8945.3	8784.4	6501.8
20°	13352.7	13440.7	13398.1	13489.2	13559.1	13568.1	13146.3	11910.8	10035.0	9764.8	7130.1
22.5°	14940.1	14937.1	14827.8	14663.9	14527.3	14521.3	14138.8	13040.0	11024.5	10763.4	7761.5
25°	16946.5	16955.6	16743.2	16275.8	15935.8	15519.9	15079.8	14029.6	12083.9	11762.1	8426.3
27.5°	19247.4	19189.7	18868.0	18224.4	17550.6	16840.3	16205.9	15179.9	13206.9	12939.9	9188.1
30°	21314.4	21293.2	20916.8	20130.6	19244.3	18531.0	17611.3	16621.8	14660.9	14333.0	10041.0
32.5°	23238.9	23269.3	22747.2	21933.6	21077.7	20255.1	19283.8	17999.8	16087.5	15623.1	10969.9
35°	24741.4	24771.8	24231.4	23554.6	22674.3	21991.3	21065.5	19468.9	17496.0	17104.4	12038.3
37.5°	25542.7	25582.2	25269.5	24759.6	24210.2	23867.2	23005.2	21360.0	19207.9	18971.2	13301.1
40°	25694.5	25740.0	25603.5	25466.8	25436.5	25682.4	25430.4	23588.0	21581.6	21211.2	15183.0
42.5°	25239.2	25299.9	25360.6	25664.2	26283.4	27184.9	28062.1	26611.2	24638.2	24140.4	17483.8
45°	24043.3	24037.2	24277.0	25063.1	26450.3	28374.7	30812.1	30396.3	28802.7	28210.9	20734.7
47.5°	21997.4	21967.1	22486.1	23606.2	25767.4	28593.3	33055.3	34991.9	34117.7	33571.4	24228.4
50°	18880.1	19028.8	19845.3	21408.6	24070.6	27931.6	33747.4	38006.0	38479.5	37899.8	27051.3
52.5°	15228.5	15222.5	16503.4	18625.1	21557.2	26474.6	33264.7	38552.4	39897.1	39453.9	28441.5
55°	11270.3	11349.3	12681.9	14821.8	18294.2	23815.6	31689.4	37990.8	40437.3	40124.7	29358.2
57°	8383.7	8523.3	9591.8	11856.2	15453.1	21183.9	29591.9	36986.1	40649.8	40479.8	30120.1
57.5°	7825.2	7831.3	8872.4	10930.4	14621.4	20173.1	28991.0	36567.3	40643.7	40549.7	30244.5
60°	4817.2	4968.9	5688.3	7388.2	10702.7	15744.6	24963.0	34160.2	40328.1	40464.7	30775.7
62.5°	2883.6	2947.4	3414.8	4452.9	6899.4	11491.9	20428.2	31079.3	39505.5	39921.3	30739.3
65°	1854.6	1869.8	2082.3	2695.4	4313.3	7767.5	15741.5	27008.8	37377.7	38142.6	29537.3
67.5°	1432.7	1457.0	1542.0	1769.7	2501.1	4838.4	11133.8	22665.2	33935.5	34922.0	26623.3
70°	1271.8	1284.0	1314.3	1387.2	1654.2	2731.8	6926.7	17705.4	28141.0	28420.3	20834.8
72.5°	1038.1	1071.5	1165.6	1189.8	1311.3	1705.9	3854.9	11883.5	18907.4	18977.2	11655.9
75°	804.4	810.5	950.1	1019.9	1104.9	1174.7	1721.0	5991.8	9081.9	8596.2	4492.4
77.5°	601.0	628.4	692.1	780.1	901.5	840.8	771.0	2258.3	2819.9	2768.3	1305.2
80°	385.5	400.7	482.6	585.8	701.2	549.4	434.1	661.7	619.2	637.4	312.7
82.5°	194.3	197.3	309.6	476.5	446.2	276.2	273.2	270.1	230.7	227.6	145.7
85°	21.2	45.5	200.4	273.2	200.4	91.1	127.5	124.4	121.4	124.4	85.0
87.5°	3.1	3.1	33.4	39.5	27.3	30.4	36.4	39.5	48.5	45.5	36.4
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°	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9
2.5°	3791.2	3669.8	3445.1	3229.6	3068.7	2965.5	2832.0	2783.4	2713.6	2704.6	2671.1
5°	3955.1	3724.4	3332.8	3023.2	2774.3	2586.2	2422.2	2285.7	2176.3	2152.1	2164.2
7.5°	4188.8	3845.9	3299.5	2877.5	2531.5	2209.8	1948.7	1787.8	1672.5	1630.0	1636.1
10°	4452.9	4006.7	3293.4	2722.7	2194.6	1800.0	1514.6	1372.0	1305.2	1280.9	1253.6
12.5°	4765.6	4191.9	3278.2	2483.0	1824.2	1435.7	1232.4	1147.4	1083.6	1065.4	1065.4
15°	5117.7	4389.2	3205.4	2185.5	1481.3	1186.9	1050.2	983.4	962.2	944.0	944.0
17.5°	5484.9	4583.4	3053.6	1818.2	1229.3	1016.9	931.8	892.4	862.1	840.8	840.8
20°	5903.8	4774.7	2810.7	1493.4	1038.1	907.6	840.8	795.3	771.0	752.8	746.7
22.5°	6301.4	4929.5	2501.1	1226.3	904.5	816.5	755.8	707.2	682.9	673.8	673.8
25°	6714.3	5023.6	2127.8	1013.8	825.6	740.6	673.8	634.4	613.2	607.1	604.0
27.5°	7115.0	5078.2	1800.0	886.4	752.8	670.8	607.1	576.8	555.5	549.4	552.4
30°	7600.6	5087.3	1481.3	795.3	689.0	604.0	546.4	519.1	506.9	500.8	497.8
32.5°	8092.3	5075.2	1244.5	740.6	628.4	546.4	497.8	476.5	467.5	458.4	458.4
35°	8644.8	5011.4	1059.3	686.0	570.7	497.8	455.3	437.1	424.9	415.9	412.8
37.5°	9330.8	4978.0	953.1	625.3	519.1	452.3	412.8	394.6	385.5	373.3	370.3
40°	10411.4	5126.8	919.7	570.7	467.5	409.7	373.3	352.1	340.0	327.8	324.8
42.5°	11759.1	5387.8	865.1	516.0	421.9	370.3	333.9	309.6	288.4	273.2	267.1
45°	13504.4	5730.8	780.1	458.4	382.5	327.8	294.4	264.1	236.8	224.6	221.6
47.5°	15334.7	6061.7	704.2	412.8	340.0	291.4	254.9	221.6	197.3	188.2	185.2
50°	16457.9	6128.5	655.6	361.2	297.5	252.0	215.5	185.2	170.0	160.9	160.9
52.5°	16970.8	6022.2	588.9	315.7	258.0	221.6	185.2	160.9	151.7	145.7	142.7
55°	17329.0	5858.2	500.8	273.2	221.6	188.2	163.9	145.7	133.6	127.5	124.4
57°	17538.4	5636.7	434.1	239.8	191.2	163.9	145.7	130.5	118.4	106.3	106.3
57.5°	17547.6	5551.7	415.9	236.8	182.1	157.9	142.7	127.5	112.3	100.1	97.2
60°	17277.4	4968.9	333.9	200.4	145.7	133.6	118.4	100.1	78.9	66.8	63.7
62.5°	16409.3	4228.3	276.2	170.0	118.4	103.2	85.0	75.9	54.7	39.5	39.5
65°	15095.0	3430.0	236.8	136.6	97.2	75.9	57.7	54.7	33.4	18.2	15.2
67.5°	13194.8	2671.1	200.4	112.3	82.0	54.7	39.5	36.4	18.2	6.1	0.0
70°	10053.2	1821.3	166.9	91.1	60.7	39.5	27.3	21.2	12.1	3.1	0.0
72.5°	5794.5	1001.7	139.6	69.8	45.5	30.4	21.2	12.1	12.1	0.0	0.0
75°	2070.1	431.0	106.3	51.6	36.4	24.3	15.2	6.1	9.1	3.1	0.0
77.5°	658.7	230.7	69.8	39.5	30.4	18.2	12.1	6.1	6.1	3.1	0.0
80°	194.3	121.4	42.5	33.4	21.2	15.2	9.1	3.1	6.1	3.1	0.0
82.5°	106.3	60.7	33.4	24.3	21.2	12.1	9.1	3.1	3.1	3.1	0.0
85°	54.7	36.4	27.3	24.3	21.2	12.1	9.1	3.1	0.0	3.1	3.1
87.5°	30.4	27.3	27.3	24.3	21.2	15.2	9.1	3.1	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)