

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: P456995

Luminaire Tested: **GALN-SA8B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456995
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-SA8B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 36787 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

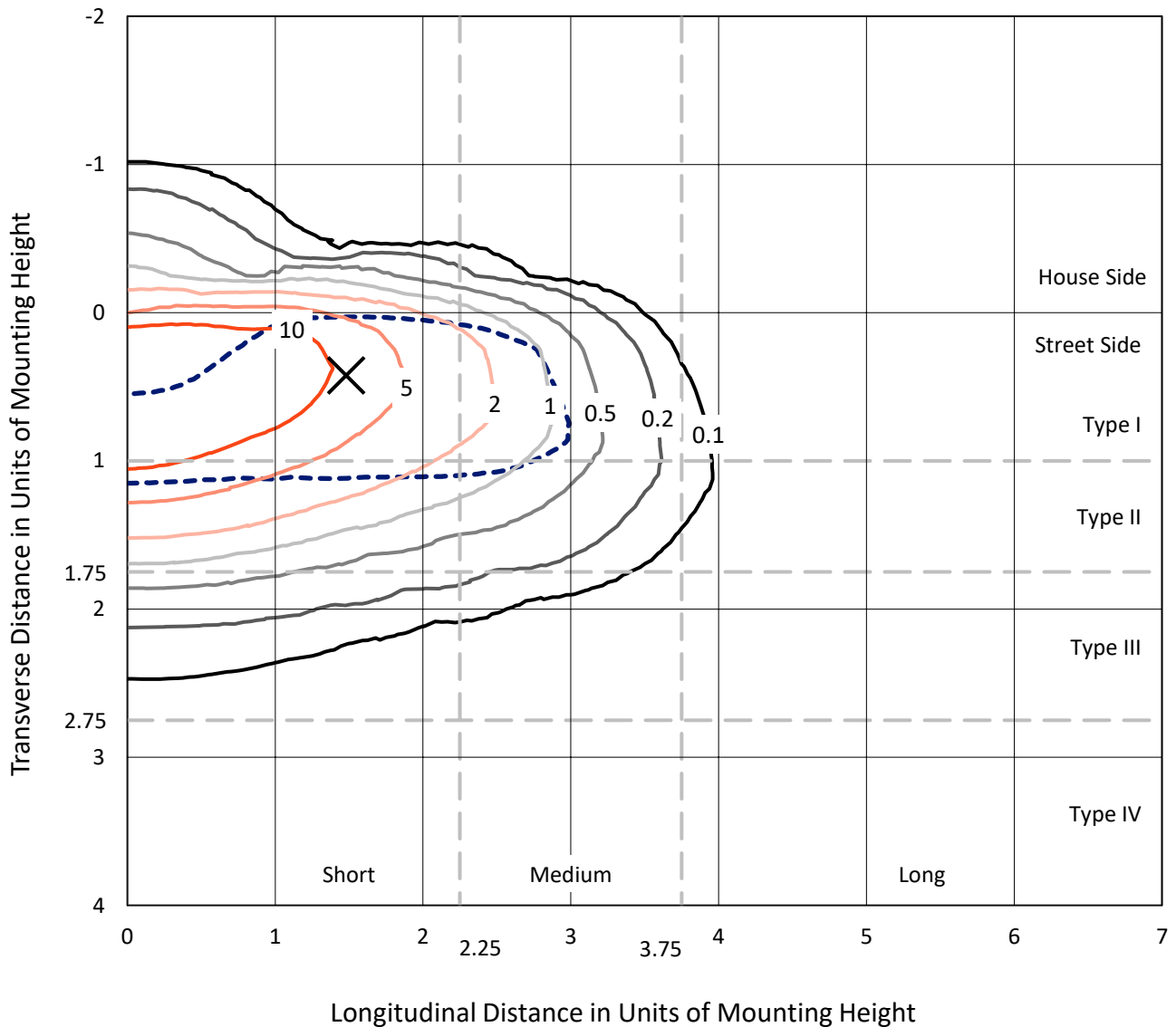
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

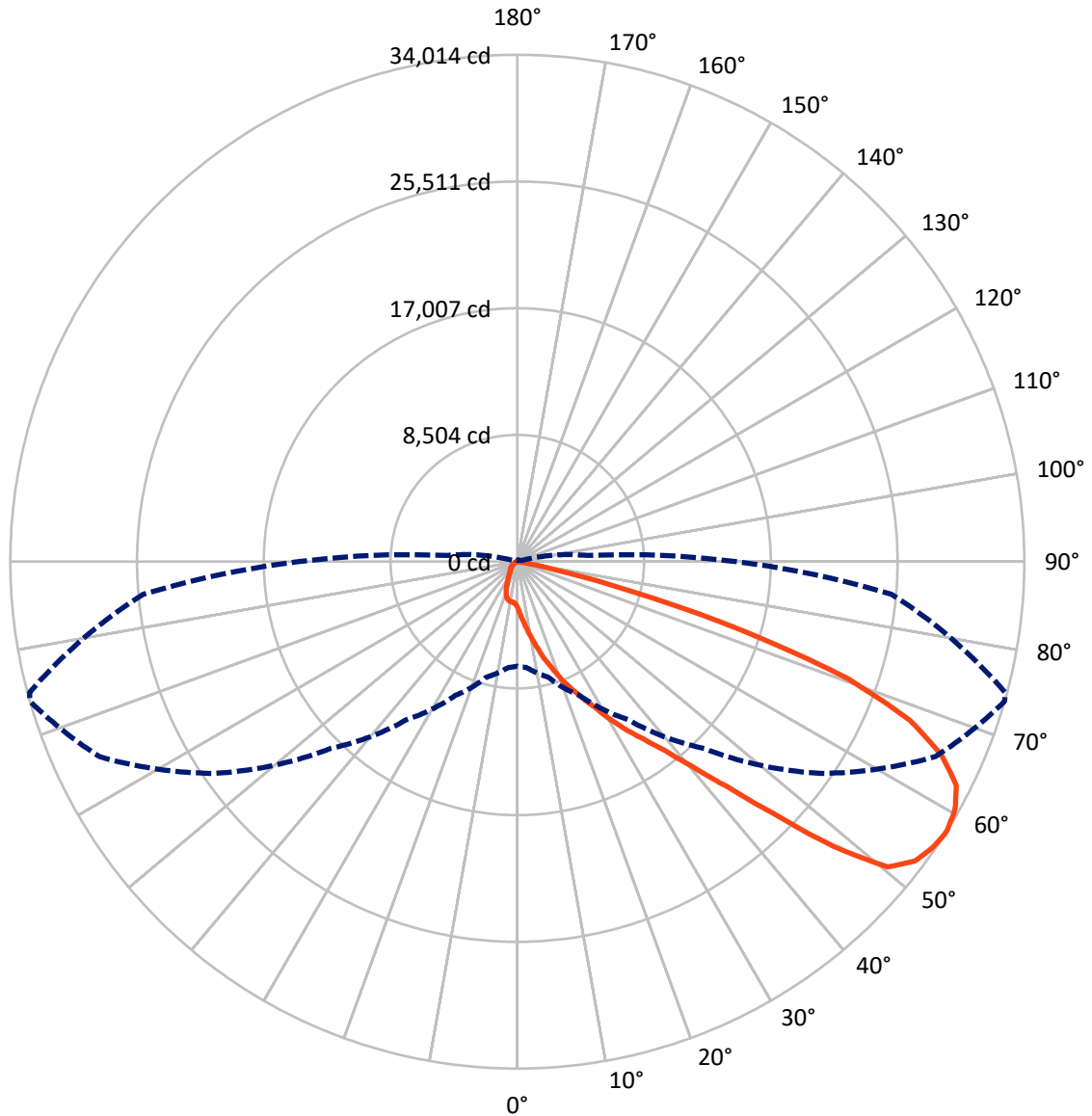
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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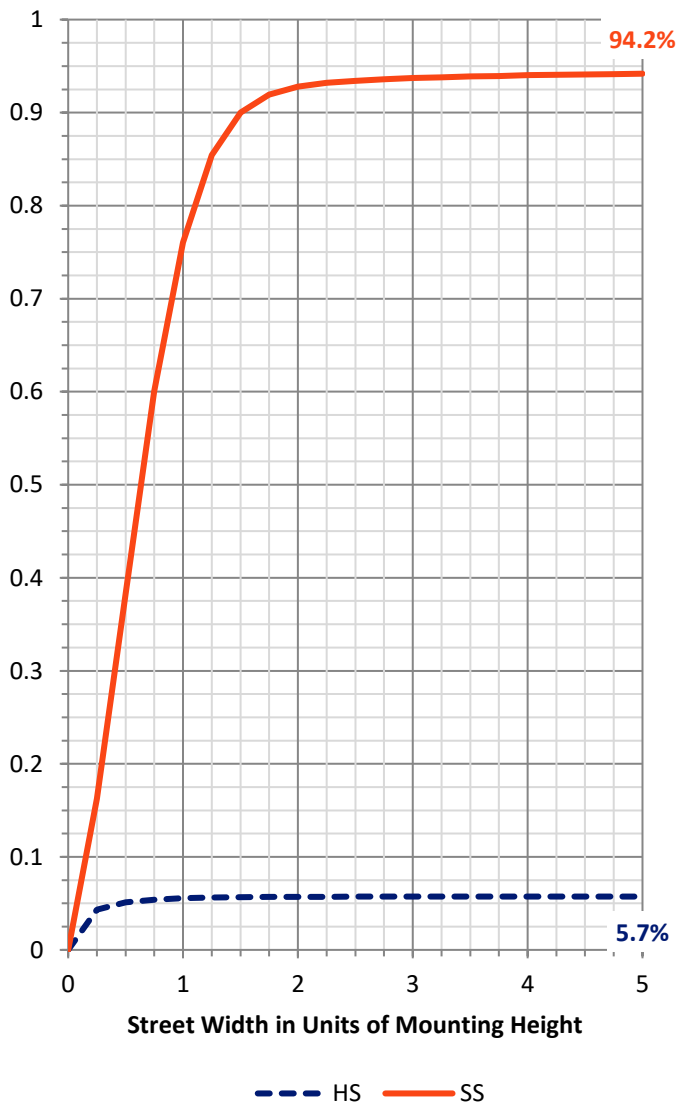
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.8	0.0	2121.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	34665.2	0.0	34665.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	36787.0	0.0	36787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	1.0
10°-20°	1465.8	4.0
20°-30°	3136.3	8.5
30°-40°	5764.6	15.7
40°-50°	8837.2	24.0
50°-60°	9348.6	25.4
60°-70°	6104.9	16.6
70°-80°	1668.1	4.5
80°-90°	89.8	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°	36787.0	100.0
0°-180°	36787.0	100.0

Coefficient of Utilization



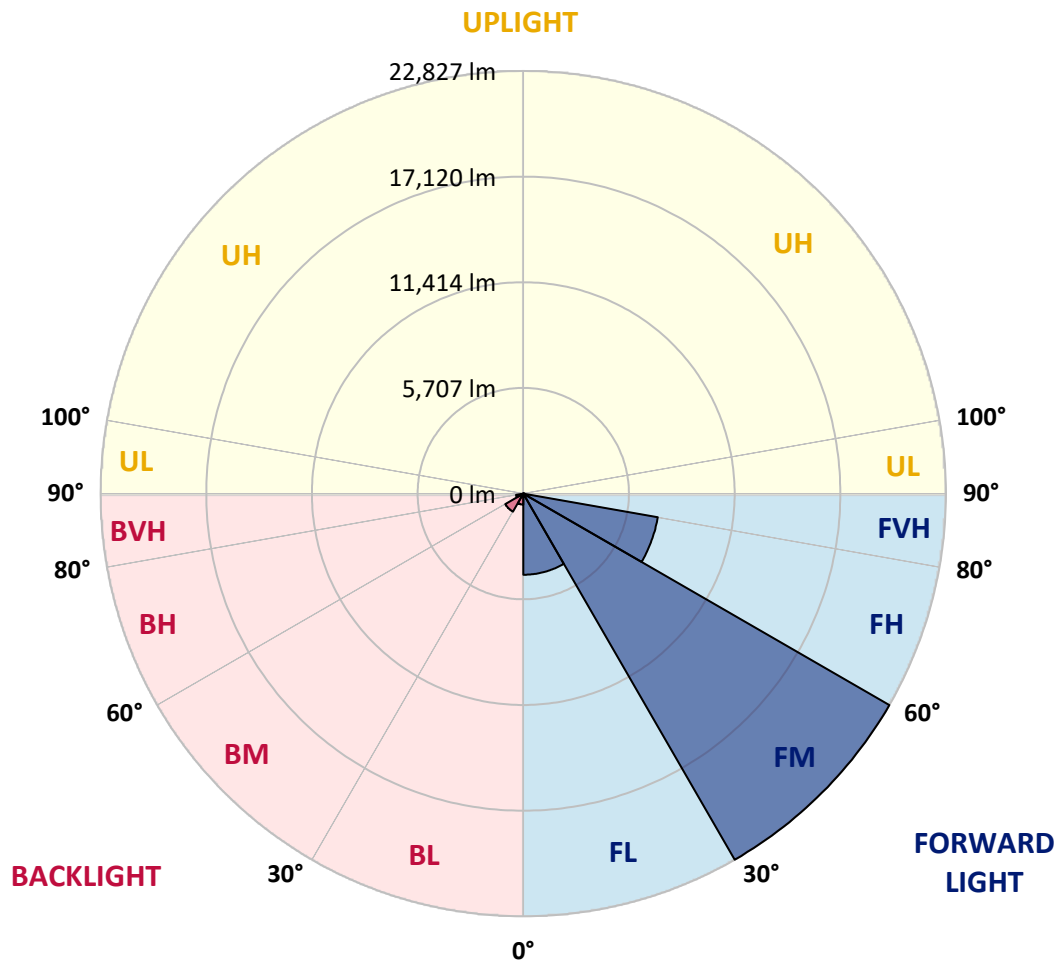
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4381.3	11.9			
FM	(30°-60°)	22827.0	62.1			
FH	(60°-80°)	7374.6	20.0			G3/7500
FVH	(80°-90°)	82.4	0.2			G1/100
BL	(0°-30°)	592.7	1.6	B2/1000		
BM	(30°-60°)	1123.3	3.1	B2/2500		
BH	(60°-80°)	398.3	1.1	B1/500		G1/500
BVH	(80°-90°)	7.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9
2.5°	4508.3	4467.6	4386.4	4358.4	4239.0	4053.6	3891.1	3672.7	3499.9	3482.2	3273.9
5°	6037.3	5945.8	5907.7	5724.9	5437.9	5168.6	4706.4	4355.9	3952.0	3921.6	3502.5
7.5°	7510.4	7383.4	7345.3	7172.6	6837.3	6413.2	5813.8	5176.3	4536.2	4477.8	3809.8
10°	8577.1	8594.9	8526.3	8412.1	8140.3	7708.5	6969.4	6098.2	5186.4	5112.8	4155.2
12.5°	9341.6	9339.1	9351.8	9349.3	9204.5	8876.8	8099.6	7096.4	5902.7	5757.9	4551.4
15°	9839.5	9847.1	9885.2	10017.3	10032.5	9829.3	9181.6	8051.4	6733.2	6552.9	4980.7
17.5°	10342.4	10395.7	10456.6	10581.1	10692.9	10611.6	10154.4	9047.0	7485.0	7350.4	5440.4
20°	11172.9	11246.5	11211.0	11287.2	11345.6	11353.2	11000.2	9966.5	8396.8	8170.8	5966.2
22.5°	12501.2	12498.7	12407.3	12270.1	12155.8	12150.7	11830.7	10911.3	9224.8	9006.4	6494.4
25°	14180.1	14187.7	14009.9	13618.8	13334.3	12986.4	12618.1	11739.3	10111.2	9842.0	7050.7
27.5°	16105.3	16057.1	15787.8	15249.4	14685.5	14091.2	13560.4	12701.9	11051.0	10827.5	7688.2
30°	17835.0	17817.2	17502.2	16844.4	16102.8	15505.9	14736.3	13908.3	12267.6	11993.3	8401.9
32.5°	19445.3	19470.6	19033.8	18353.1	17636.9	16948.6	16135.8	15061.4	13461.3	13072.7	9179.1
35°	20702.5	20727.9	20275.8	19709.4	18972.8	18401.4	17626.7	16290.7	14639.8	14312.2	10073.1
37.5°	21373.0	21406.0	21144.4	20717.7	20258.0	19971.0	19249.7	17873.1	16072.3	15874.2	11129.7
40°	21500.0	21538.1	21423.8	21309.5	21284.1	21489.8	21279.0	19737.3	18058.5	17748.6	12704.4
42.5°	21119.0	21169.8	21220.6	21474.6	21992.7	22747.1	23481.1	22267.0	20616.1	20199.6	14629.7
45°	20118.3	20113.2	20313.9	20971.7	22132.4	23742.7	25782.2	25434.3	24100.8	23605.6	17349.9
47.5°	18406.4	18381.0	18815.4	19752.6	21561.0	23925.6	27659.2	29279.6	28548.1	28091.0	20273.2
50°	15798.0	15922.5	16605.7	17913.7	20141.2	23371.9	28238.3	31801.7	32197.9	31712.8	22635.3
52.5°	12742.5	12737.5	13809.3	15584.6	18038.2	22152.8	27834.4	32258.9	33384.1	33013.2	23798.6
55°	9430.5	9496.6	10611.6	12402.2	15307.8	19927.8	26516.3	31789.0	33836.2	33574.6	24565.6
57°	7015.1	7132.0	8026.0	9920.7	12930.5	17725.8	24761.2	30948.3	34014.0	33871.7	25203.1
57.5°	6547.8	6552.9	7424.0	9146.1	12234.6	16880.0	24258.3	30597.8	34008.9	33930.1	25307.3
60°	4030.8	4157.8	4759.7	6182.0	8955.6	13174.3	20887.9	28583.7	33744.7	33859.0	25751.8
62.5°	2412.9	2466.2	2857.4	3726.0	5773.1	9616.0	17093.3	26005.7	33056.4	33404.4	25721.3
65°	1551.9	1564.6	1742.4	2255.4	3609.2	6499.5	13171.8	22599.8	31276.0	31916.0	24715.5
67.5°	1198.8	1219.1	1290.3	1480.7	2092.9	4048.6	9316.2	18965.2	28395.8	29221.2	22277.2
70°	1064.2	1074.4	1099.8	1160.7	1384.2	2285.9	5796.0	14815.1	23547.1	23780.8	17433.7
72.5°	868.6	896.6	975.3	995.6	1097.2	1427.4	3225.6	9943.6	15820.9	15879.3	9753.1
75°	673.1	678.1	795.0	853.4	924.5	982.9	1440.1	5013.7	7599.3	7192.9	3759.0
77.5°	502.9	525.8	579.1	652.7	754.3	703.5	645.1	1889.7	2359.5	2316.4	1092.1
80°	322.6	335.3	403.8	490.2	586.7	459.7	363.2	553.7	518.1	533.4	261.6
82.5°	162.6	165.1	259.1	398.8	373.4	231.1	228.6	226.0	193.0	190.5	121.9
85°	17.8	38.1	167.6	228.6	167.6	76.2	106.7	104.1	101.6	104.1	71.1
87.5°	2.5	2.5	27.9	33.0	22.9	25.4	30.5	33.0	40.6	38.1	30.5
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°	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9	3080.9
2.5°	3172.3	3070.7	2882.8	2702.4	2567.8	2481.5	2369.7	2329.1	2270.6	2263.0	2235.1
5°	3309.5	3116.4	2788.8	2529.7	2321.4	2164.0	2026.8	1912.5	1821.1	1800.8	1810.9
7.5°	3505.0	3218.0	2760.8	2407.8	2118.3	1849.0	1630.6	1496.0	1399.5	1363.9	1369.0
10°	3726.0	3352.6	2755.8	2278.3	1836.3	1506.1	1267.4	1148.0	1092.1	1071.8	1049.0
12.5°	3987.6	3507.6	2743.1	2077.6	1526.5	1201.4	1031.2	960.1	906.7	891.5	891.5
15°	4282.2	3672.7	2682.1	1828.7	1239.5	993.1	878.8	822.9	805.1	789.9	789.9
17.5°	4589.5	3835.2	2555.1	1521.4	1028.6	850.9	779.7	746.7	721.3	703.5	703.5
20°	4940.0	3995.2	2351.9	1249.6	868.6	759.4	703.5	665.4	645.1	629.9	624.8
22.5°	5272.8	4124.8	2092.9	1026.1	756.9	683.2	632.4	591.8	571.5	563.9	563.9
25°	5618.2	4203.5	1780.4	848.3	690.8	619.7	563.9	530.8	513.1	508.0	505.4
27.5°	5953.5	4249.2	1506.1	741.6	629.9	561.3	508.0	482.6	464.8	459.7	462.3
30°	6359.8	4256.8	1239.5	665.4	576.6	505.4	457.2	434.3	424.2	419.1	416.5
32.5°	6771.3	4246.7	1041.3	619.7	525.8	457.2	416.5	398.8	391.1	383.5	383.5
35°	7233.6	4193.3	886.4	574.0	477.5	416.5	381.0	365.7	355.6	348.0	345.4
37.5°	7807.6	4165.4	797.5	523.2	434.3	378.4	345.4	330.2	322.6	312.4	309.9
40°	8711.8	4289.8	769.6	477.5	391.1	342.9	312.4	294.6	284.5	274.3	271.8
42.5°	9839.5	4508.3	723.9	431.8	353.0	309.9	279.4	259.1	241.3	228.6	223.5
45°	11299.9	4795.3	652.7	383.5	320.0	274.3	246.4	221.0	198.1	188.0	185.4
47.5°	12831.4	5072.1	589.3	345.4	284.5	243.8	213.3	185.4	165.1	157.5	154.9
50°	13771.2	5128.0	548.6	302.2	248.9	210.8	180.3	154.9	142.2	134.6	134.6
52.5°	14200.4	5039.1	492.7	264.1	215.9	185.4	154.9	134.6	127.0	121.9	119.4
55°	14500.1	4902.0	419.1	228.6	185.4	157.5	137.2	121.9	111.8	106.7	104.1
57°	14675.4	4716.5	363.2	200.6	160.0	137.2	121.9	109.2	99.1	88.9	88.9
57.5°	14683.0	4645.4	348.0	198.1	152.4	132.1	119.4	106.7	94.0	83.8	81.3
60°	14456.9	4157.8	279.4	167.6	121.9	111.8	99.1	83.8	66.0	55.9	53.3
62.5°	13730.5	3538.0	231.1	142.2	99.1	86.4	71.1	63.5	45.7	33.0	33.0
65°	12630.8	2870.1	198.1	114.3	81.3	63.5	48.3	45.7	27.9	15.2	12.7
67.5°	11040.8	2235.1	167.6	94.0	68.6	45.7	33.0	30.5	15.2	5.1	0.0
70°	8412.1	1523.9	139.7	76.2	50.8	33.0	22.9	17.8	10.2	2.5	0.0
72.5°	4848.6	838.2	116.8	58.4	38.1	25.4	17.8	10.2	10.2	0.0	0.0
75°	1732.2	360.7	88.9	43.2	30.5	20.3	12.7	5.1	7.6	2.5	0.0
77.5°	551.2	193.0	58.4	33.0	25.4	15.2	10.2	5.1	5.1	2.5	0.0
80°	162.6	101.6	35.6	27.9	17.8	12.7	7.6	2.5	5.1	2.5	0.0
82.5°	88.9	50.8	27.9	20.3	17.8	10.2	7.6	2.5	2.5	2.5	0.0
85°	45.7	30.5	22.9	20.3	17.8	10.2	7.6	2.5	0.0	2.5	2.5
87.5°	25.4	22.9	22.9	20.3	17.8	12.7	7.6	2.5	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)