

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: P652623

Luminaire Tested: **GALN-SA9B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25591.6 lumens  
Efficiency: N/A  
Efficacy: 70.3 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

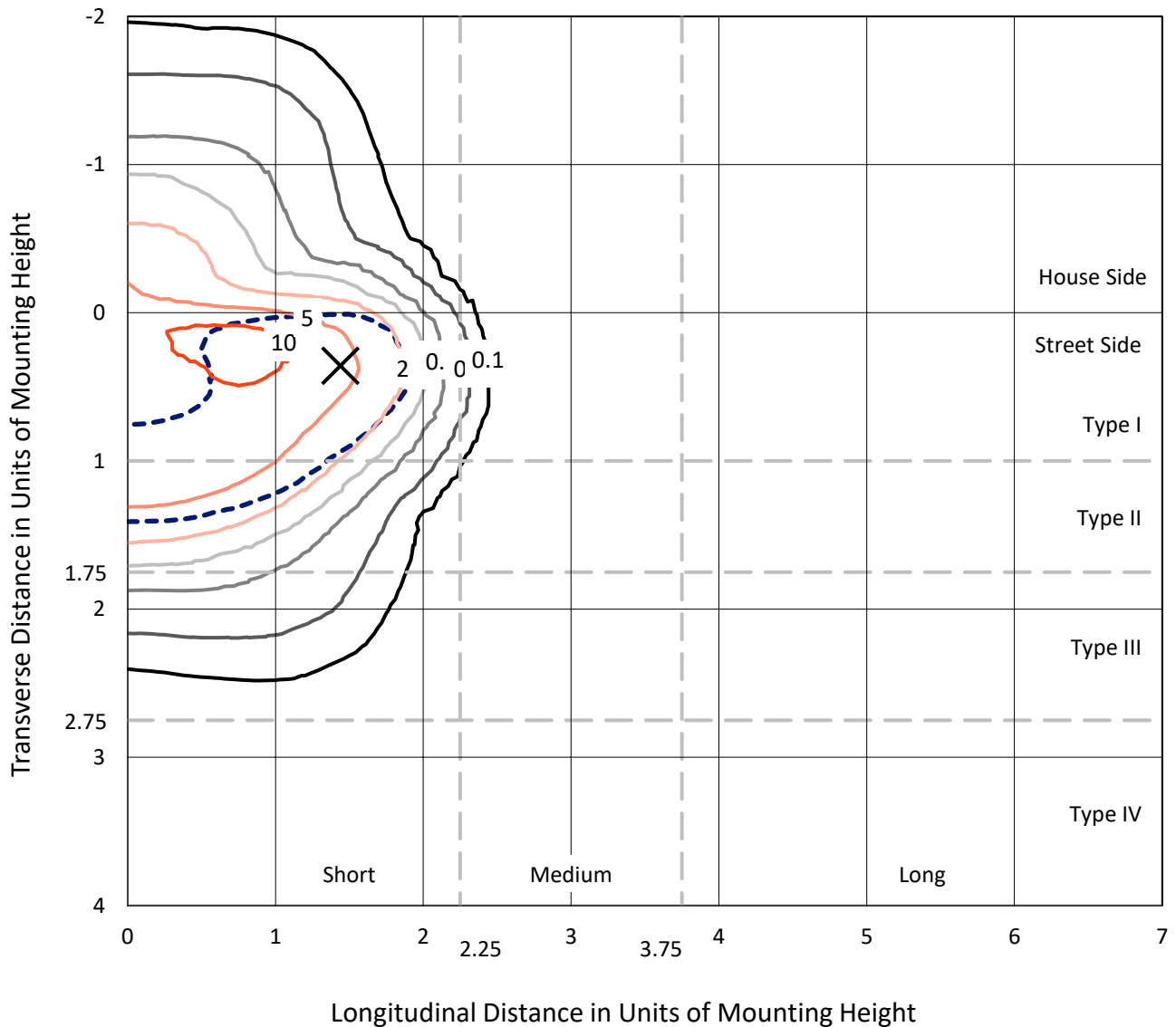
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

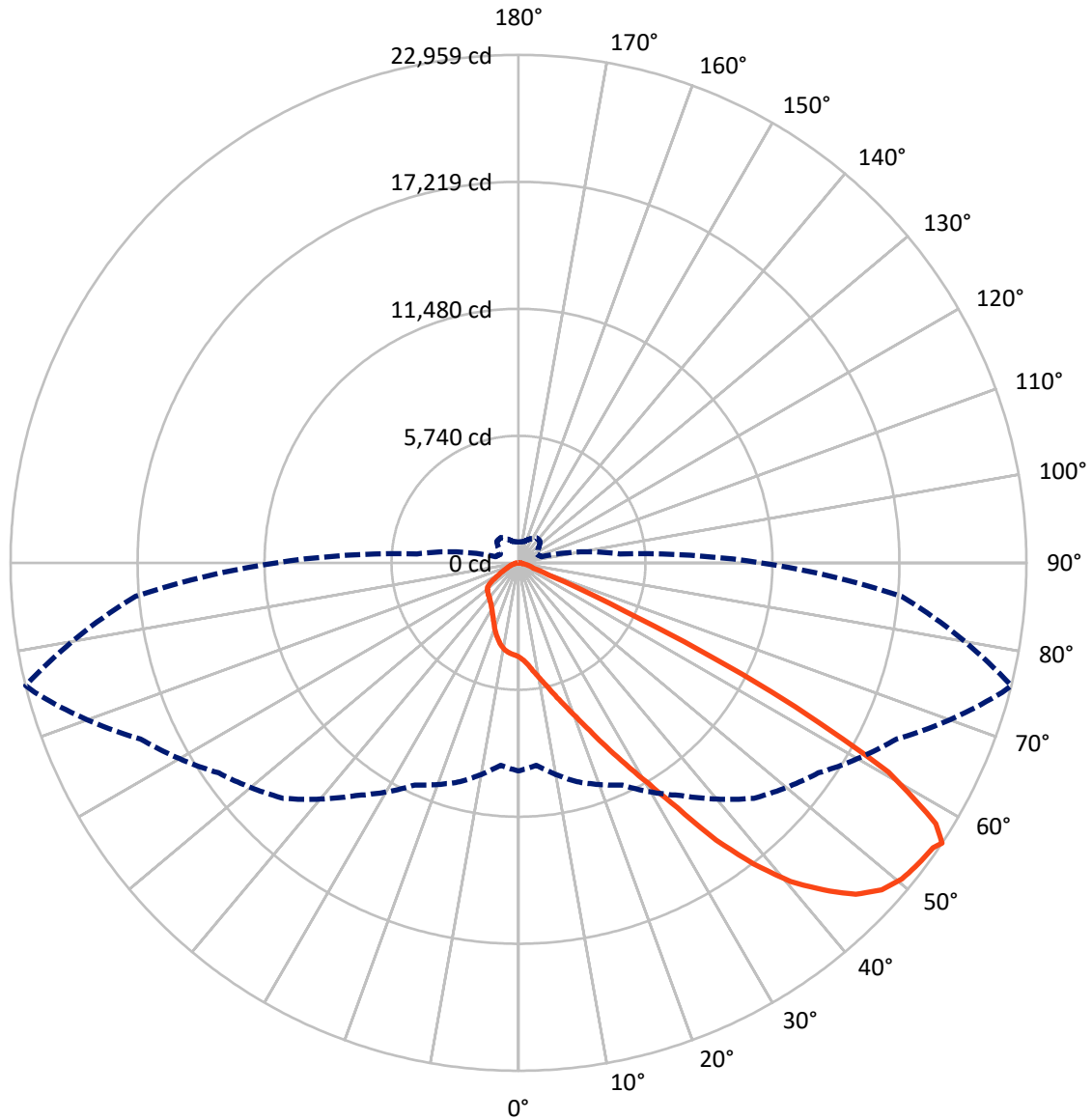
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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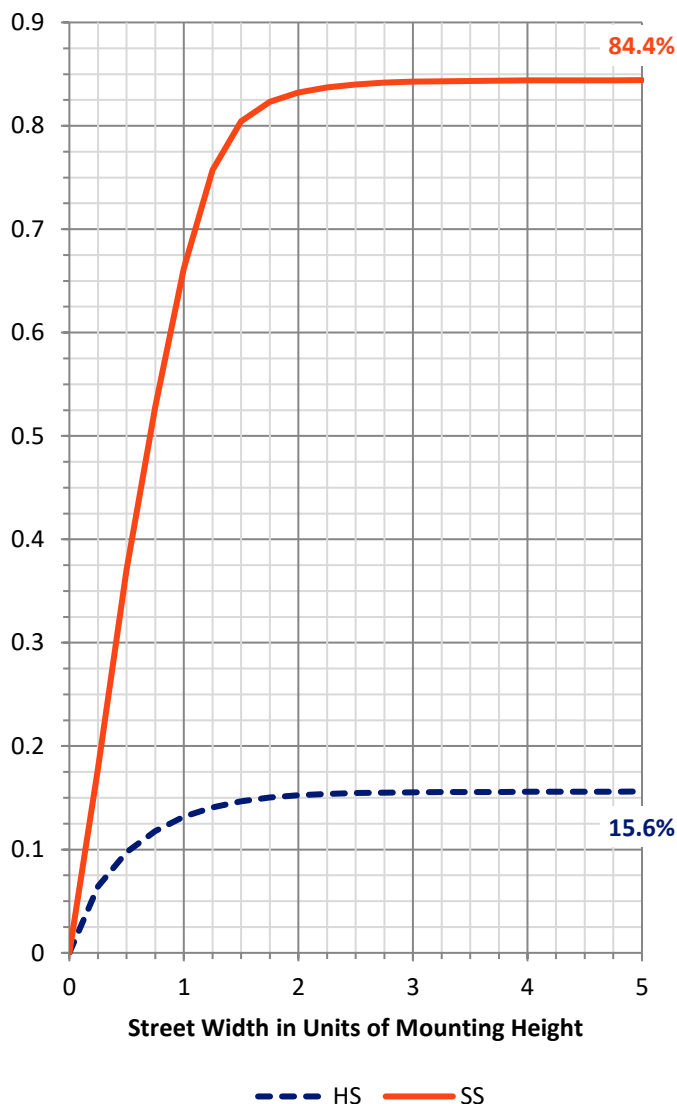
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4020.3	0.0	4020.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	21571.3	0.0	21571.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	25591.6	0.0	25591.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.1	1.7
10°-20°	1378.6	5.4
20°-30°	2499.7	9.8
30°-40°	4310.9	16.8
40°-50°	7003.2	27.4
50°-60°	7381.6	28.8
60°-70°	2255.4	8.8
70°-80°	289.1	1.1
80°-90°	43.9	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°	25591.6	100.0
0°-180°	25591.6	100.0

**Coefficient of Utilization**

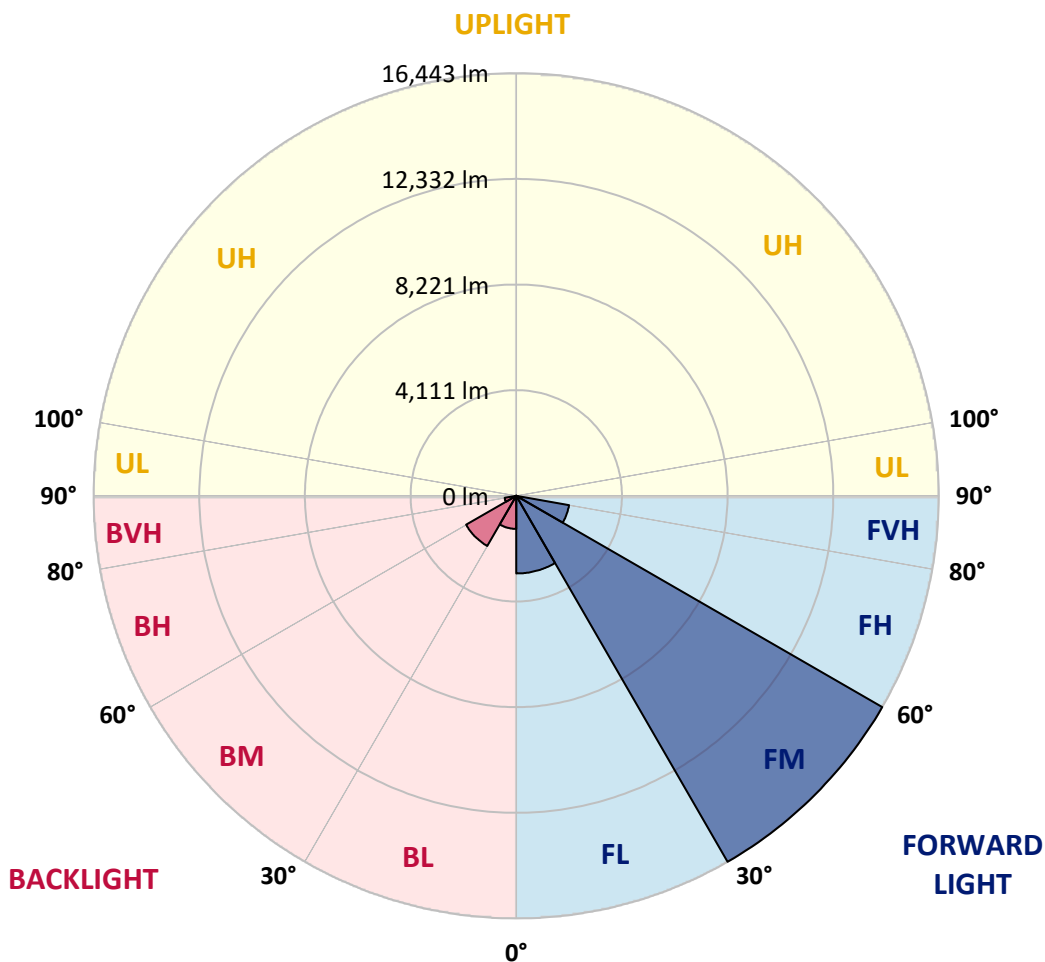


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.3	11.8			
FM (30°-60°)	16442.6	64.2			
FH (60°-80°)	2085.9	8.2			G2/5000
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	1286.1	5.0	B3/2500		
BM (30°-60°)	2253.1	8.8	B2/2500		
BH (60°-80°)	458.6	1.8	B1/500		G1/500
BVH (80°-90°)	22.4	0.1			G1/100
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°	55°	65°	75°	76°	85°
0°	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7
2.5°	4906.1	4792.9	4797.6	4788.1	4773.9	4722.0	4566.4	4542.8	4439.1	4410.7	4316.3
5°	5495.7	5396.6	5453.3	5368.4	5288.1	5240.9	4986.2	4868.3	4703.2	4641.9	4509.8
7.5°	5863.7	5816.5	5797.6	5802.3	5726.9	5609.0	5495.7	5236.2	5014.5	4967.4	4689.1
10°	6042.9	6014.6	6042.9	6028.8	6061.8	6076.0	5877.8	5722.2	5396.6	5316.5	4882.4
12.5°	6085.4	6142.0	6165.5	6226.9	6307.1	6443.9	6429.8	6217.4	5783.5	5731.6	5179.6
15°	6189.2	6236.4	6212.7	6311.8	6462.7	6693.9	6816.6	6783.5	6316.5	6222.2	5524.0
17.5°	6283.5	6198.6	6278.8	6476.9	6627.8	6981.6	7278.9	7415.7	6896.8	6788.3	5840.1
20°	6410.9	6387.3	6373.1	6472.2	6741.1	7212.8	7802.5	8052.5	7547.7	7434.5	6293.0
22.5°	6797.7	6802.4	6793.0	6646.8	6840.2	7373.2	8260.0	8878.0	8326.2	8231.8	6807.1
25°	7307.2	7245.9	7198.7	7080.7	7057.2	7519.5	8722.3	9887.6	9260.2	9194.1	7363.8
27.5°	7844.9	7844.9	7703.4	7594.9	7443.9	7882.7	9147.0	10868.7	10387.6	10298.0	7849.6
30°	8429.9	8462.9	8444.1	8212.9	8118.6	8279.0	9580.9	12123.6	11680.1	11566.9	8651.6
32.5°	9293.1	9222.4	9302.6	9109.2	8830.8	8972.4	10264.9	13246.3	13359.5	13199.2	9703.6
35°	10434.8	10392.3	10340.4	10024.4	9694.1	9807.4	11232.0	14628.5	15468.2	15388.0	10765.0
37.5°	11458.5	11434.8	11392.4	11175.4	10793.3	10930.1	12331.2	16067.3	17524.9	17260.8	12265.1
40°	12534.0	12661.3	12524.6	12331.2	11982.1	12284.0	13623.7	16921.1	19256.2	18935.5	13411.4
42.5°	13991.6	13892.6	13954.0	13600.1	13411.4	13741.6	14920.9	17775.0	20600.6	20218.6	14628.5
45°	15543.7	15548.4	15383.2	15270.0	14779.5	15138.0	15718.2	18246.7	21671.5	21374.3	15548.4
47.5°	16539.0	16534.3	16713.5	16892.8	16388.1	16034.3	16260.7	18694.8	22223.4	22086.6	15883.3
50°	16383.4	16430.5	16661.6	17331.5	17595.7	17119.2	16770.2	18562.8	22473.5	22459.3	16171.1
52.5°	14251.1	14406.8	14793.6	15760.7	17091.0	17680.6	17303.2	18808.0	22596.1	22619.7	16600.3
55°	10849.9	10934.9	11670.7	12845.3	14317.2	16336.2	17091.0	19001.5	22690.4	22732.9	17119.2
56°	9411.1	9184.6	10246.1	11081.0	12840.6	15048.3	16553.2	18850.5	22633.8	22959.3	17378.7
57.5°	7104.3	6953.4	7812.0	8854.5	10548.0	12878.4	14883.3	18138.2	22251.8	22247.0	17006.0
60°	4321.1	4170.1	4830.5	5443.8	6392.0	7929.9	10057.4	14444.5	18812.7	19209.0	13769.9
62.5°	2570.9	2665.3	3316.3	3689.0	3995.6	4156.0	5203.3	8585.6	12552.9	12835.9	8543.1
65°	1712.4	1745.4	2236.1	2849.3	2986.1	2377.5	2118.1	3476.7	5443.8	5269.3	3523.9
67.5°	1056.7	1132.2	1500.1	2141.7	2372.8	1736.0	1004.8	1297.2	1500.1	1500.1	1019.0
70°	641.6	679.3	1000.1	1457.6	1627.5	1118.0	731.2	731.2	721.7	707.6	608.5
72.5°	306.6	330.2	509.5	750.1	764.2	589.7	566.1	618.0	603.8	599.1	504.8
75°	132.1	141.5	179.3	235.9	268.9	250.0	344.4	443.5	457.6	443.5	363.2
77.5°	42.5	47.2	66.0	84.9	89.7	108.5	146.2	184.0	212.3	198.1	179.3
80°	4.7	9.4	18.8	42.5	66.0	84.9	108.5	122.6	136.8	136.8	127.3
82.5°	4.7	4.7	18.8	37.8	61.3	80.2	103.8	117.9	136.8	141.5	132.1
85°	0.0	4.7	14.1	33.1	51.9	51.9	47.2	47.2	33.1	33.1	33.1
87.5°	0.0	0.0	4.7	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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°	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7	4259.7
2.5°	4297.5	4288.1	4160.7	4080.5	4038.1	3953.1	3901.2	3863.5	3835.2	3802.2	3806.9
5°	4354.1	4321.1	4108.8	3962.5	3788.0	3693.7	3613.5	3547.4	3505.0	3495.5	3476.7
7.5°	4514.5	4340.0	4019.1	3755.0	3533.3	3438.9	3368.2	3325.7	3344.6	3302.1	3335.2
10°	4637.2	4377.7	3910.6	3528.6	3306.9	3236.1	3198.3	3231.4	3278.6	3259.7	3236.1
12.5°	4788.1	4415.4	3736.1	3311.6	3104.0	3052.2	3118.2	3179.5	3273.8	3311.6	3264.4
15°	4957.9	4457.9	3514.5	3061.6	2929.5	2971.9	3085.1	3193.6	3288.0	3335.2	3363.5
17.5°	5165.5	4443.8	3297.4	2863.4	2764.4	2887.0	3023.8	3122.9	3264.4	3335.2	3316.3
20°	5358.9	4396.6	3056.9	2665.3	2670.0	2783.2	2896.5	3056.9	3132.3	3226.7	3193.6
22.5°	5542.9	4311.6	2806.8	2528.5	2528.5	2703.1	2759.7	2863.4	2929.5	2976.6	2971.9
25°	5802.3	4151.3	2599.3	2396.4	2453.0	2566.2	2613.4	2646.5	2618.1	2655.9	2660.6
27.5°	5986.3	3986.2	2429.4	2278.4	2382.3	2467.2	2453.0	2434.2	2368.1	2316.2	2349.2
30°	6184.5	3792.7	2283.2	2198.3	2254.9	2330.4	2273.7	2217.1	2113.3	2028.5	2033.2
32.5°	6467.5	3703.1	2155.8	2103.9	2179.5	2188.9	2127.6	2042.6	1938.8	1858.6	1853.9
35°	6995.9	3646.5	2047.3	2042.6	2056.7	2061.5	2000.2	1896.4	1853.9	1787.9	1811.4
37.5°	7524.2	3618.2	1971.9	1953.0	1948.3	1953.0	1882.2	1783.2	1863.3	1858.6	1868.0
40°	8198.7	3745.6	1863.3	1839.8	1844.5	1844.5	1754.8	1726.6	1868.0	1882.2	1887.0
42.5°	8882.7	3905.9	1792.6	1717.2	1736.0	1736.0	1688.8	1655.8	1754.8	1660.5	1646.3
45°	9477.1	4141.8	1717.2	1594.5	1641.6	1665.3	1651.1	1594.5	1533.1	1372.8	1372.8
47.5°	9670.6	4349.4	1627.5	1476.5	1514.3	1618.1	1575.6	1457.6	1349.1	1217.1	1207.7
50°	10010.2	4575.8	1556.7	1339.7	1419.9	1547.3	1504.8	1386.9	1264.3	1169.9	1174.6
52.5°	10359.3	4835.2	1424.7	1179.3	1278.4	1490.7	1490.7	1358.6	1169.9	1103.9	1094.4
55°	10883.0	4825.8	1188.8	967.1	1141.6	1405.7	1429.4	1217.1	1047.2	995.3	995.3
56°	10958.4	4608.8	1070.8	905.8	1080.3	1382.2	1386.9	1179.3	1000.1	943.4	943.4
57.5°	10392.3	4160.7	938.7	830.2	1004.8	1339.7	1344.4	1146.3	962.4	882.1	872.7
60°	7995.9	2816.3	783.1	740.6	910.5	1207.7	1231.2	1042.5	844.4	783.1	778.3
62.5°	4514.5	1561.4	688.7	669.9	783.1	1028.4	1099.1	910.5	717.0	684.0	693.5
65°	2061.5	858.6	580.2	542.5	632.1	792.5	886.8	750.1	589.7	551.9	551.9
67.5°	754.8	584.9	495.3	429.2	443.5	514.2	575.5	485.8	391.6	335.0	349.1
70°	537.8	490.6	434.0	372.6	344.4	335.0	330.2	273.6	193.4	151.0	160.4
72.5°	434.0	405.7	363.2	316.0	268.9	226.4	193.4	141.5	89.7	61.3	56.6
75°	311.3	297.2	264.2	226.4	188.7	160.4	132.1	89.7	47.2	23.5	23.5
77.5°	160.4	160.4	155.7	141.5	117.9	94.4	75.4	51.9	28.3	9.4	9.4
80°	122.6	132.1	136.8	122.6	108.5	84.9	61.3	37.8	18.8	4.7	4.7
82.5°	117.9	136.8	146.2	127.3	108.5	80.2	61.3	37.8	18.8	4.7	4.7
85°	28.3	28.3	42.5	47.2	61.3	66.0	51.9	33.1	14.1	4.7	4.7
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	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)