

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: P651370

Luminaire Tested: **GALN-SA4D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22467.3 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

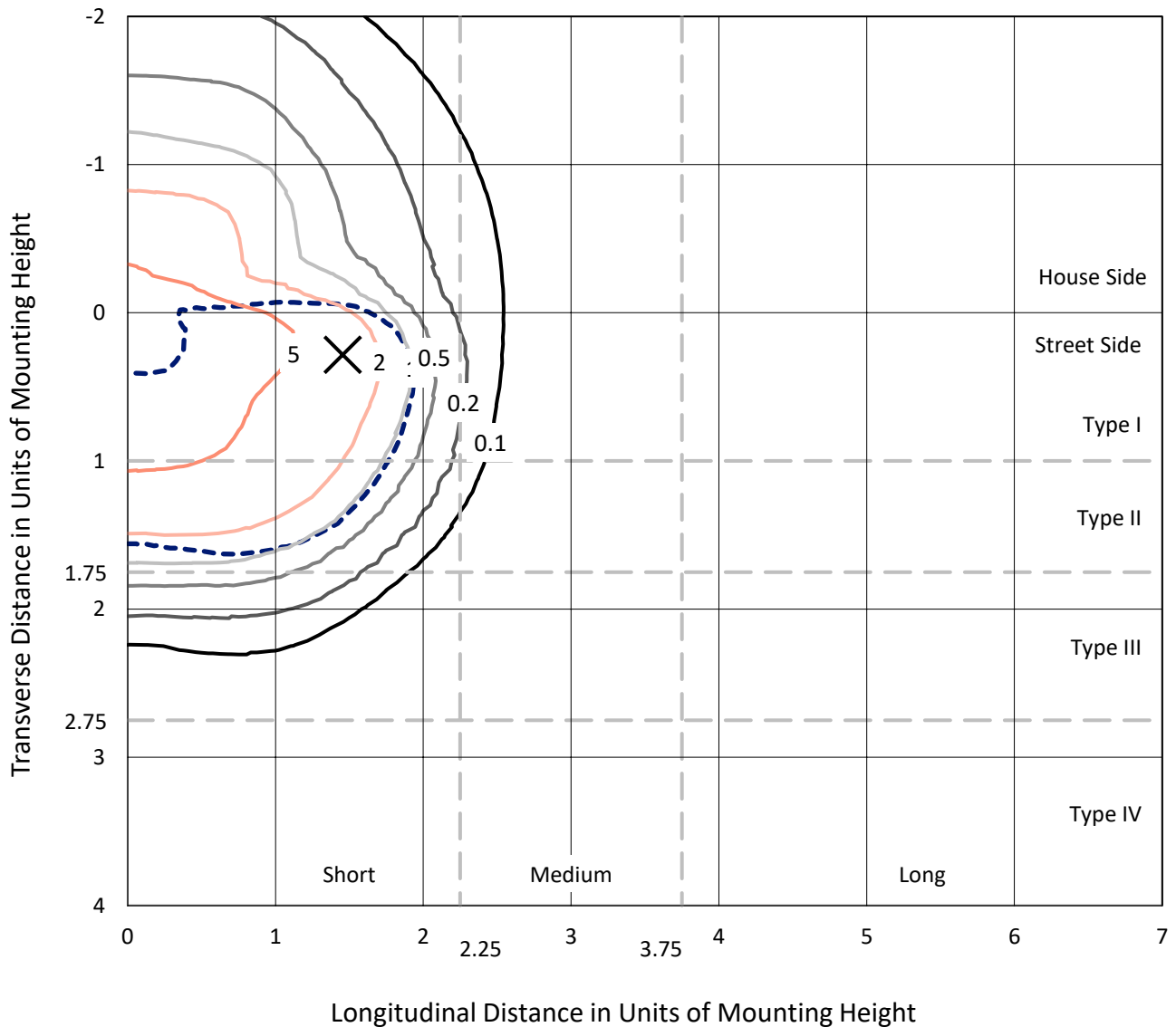
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

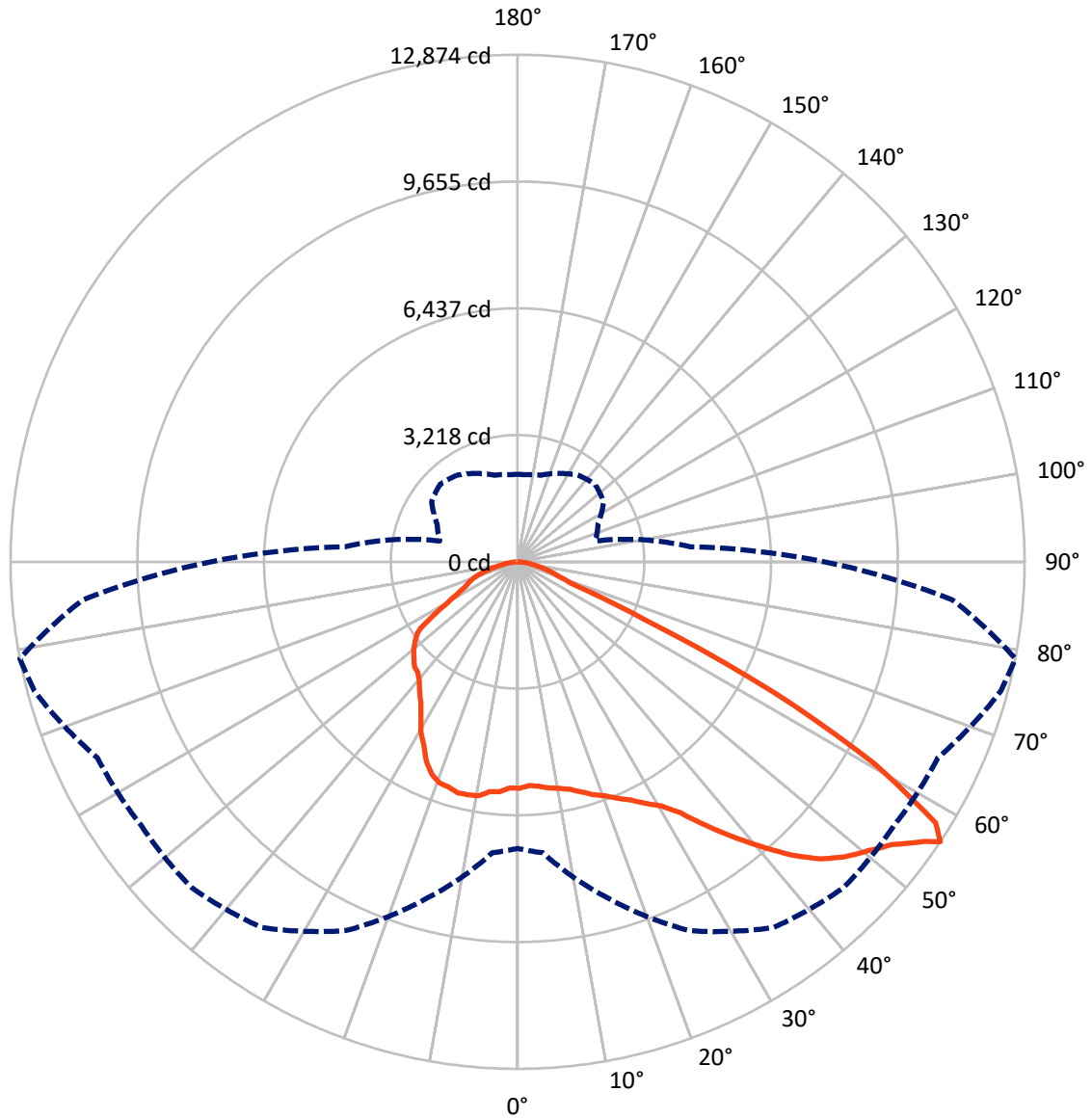
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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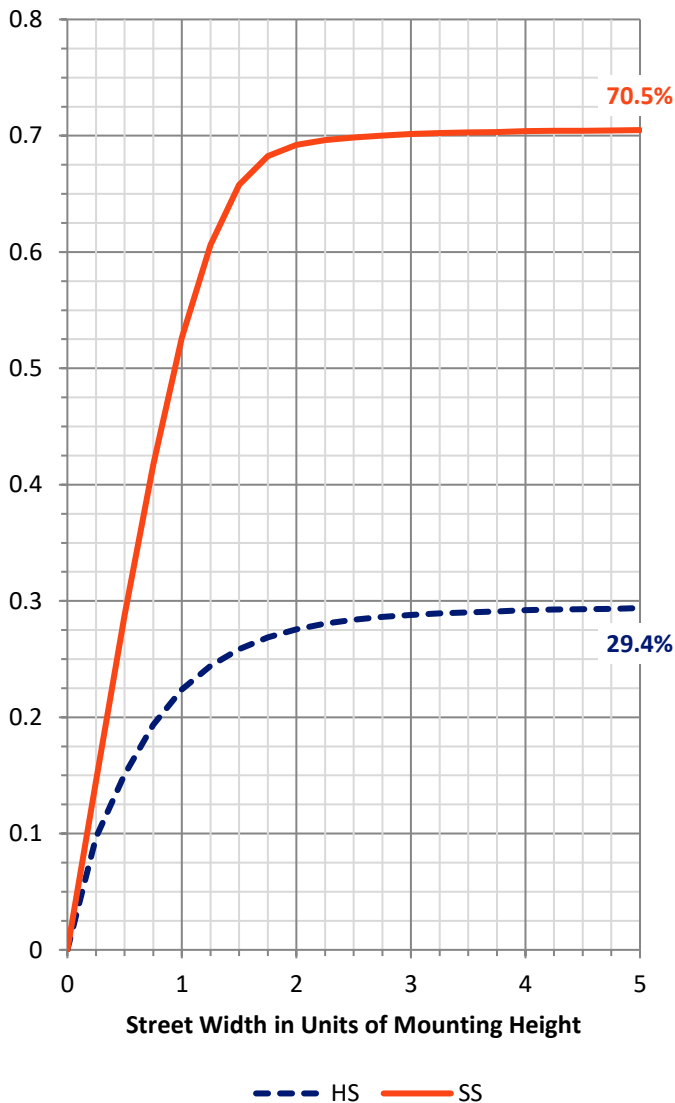
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6635.1	0.0	6635.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	15832.2	0.0	15832.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	22467.3	0.0	22467.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.6	2.3
10°-20°	1430.3	6.4
20°-30°	2447.0	10.9
30°-40°	3750.4	16.7
40°-50°	5068.6	22.6
50°-60°	5821.5	25.9
60°-70°	2653.6	11.8
70°-80°	654.2	2.9
80°-90°	118.9	0.5
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°	22467.3	100.0
0°-180°	22467.3	100.0

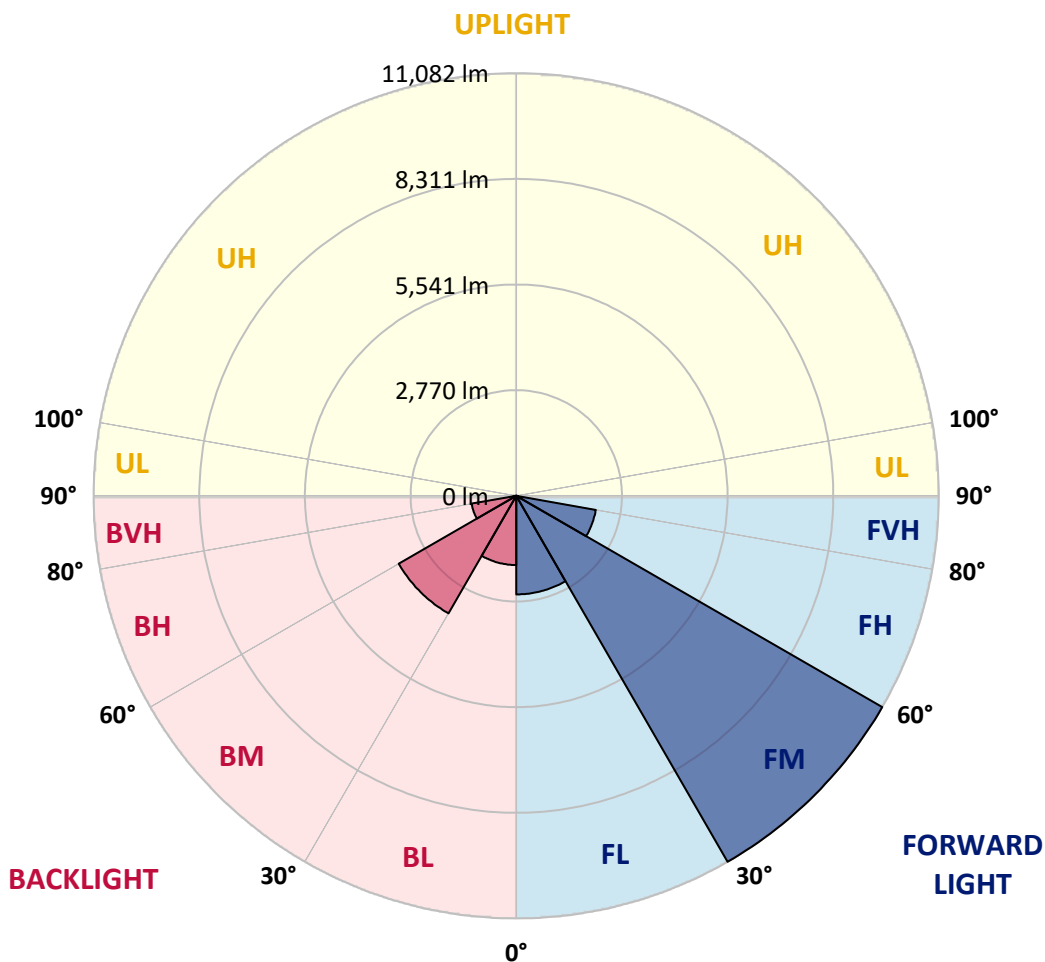


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2585.1	11.5			
FM (30°-60°)	11081.5	49.3			
FH (60°-80°)	2118.2	9.4			G2/5000
FVH (80°-90°)	47.5	0.2			G1/100
BL (0°-30°)	1815.0	8.1	B3/2500		
BM (30°-60°)	3559.0	15.8	B3/5000		
BH (60°-80°)	1189.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5
2.5°	5468.6	5454.6	5488.2	5513.4	5544.2	5583.4	5603.0	5614.2	5712.1	5686.9	5762.4
5°	5351.1	5314.7	5339.9	5359.4	5412.7	5460.2	5513.4	5597.4	5686.9	5726.1	5818.5
7.5°	5247.5	5227.9	5222.4	5236.3	5309.1	5370.7	5463.1	5586.2	5731.7	5796.1	5849.2
10°	5076.8	5048.9	5090.8	5183.2	5202.8	5331.5	5437.8	5614.2	5740.1	5852.0	6008.8
12.5°	5001.3	4973.3	4981.7	5034.8	5172.0	5295.1	5421.1	5619.7	5885.7	5930.4	6140.3
15°	5121.6	5093.6	5102.0	5088.0	5219.6	5283.9	5482.6	5731.7	5986.4	6061.9	6285.8
17.5°	5395.9	5398.6	5362.3	5331.5	5300.7	5437.8	5575.0	5798.9	6025.6	6215.9	6383.8
20°	5919.2	5826.9	5754.1	5580.5	5533.0	5591.8	5765.3	5980.8	6185.1	6341.8	6532.1
22.5°	6322.2	6330.6	6227.1	5941.6	5838.1	5863.3	6011.6	6187.9	6411.8	6523.7	6742.0
25°	6907.1	6848.3	6736.4	6509.8	6277.5	6297.1	6406.1	6565.7	6627.2	6705.6	6943.5
27.5°	7441.7	7458.5	7237.4	7024.7	6736.4	6680.5	6876.4	6904.4	6800.8	6949.1	7030.3
30°	7984.6	7970.7	7825.1	7576.1	7293.4	7304.6	7391.3	7254.2	7111.5	7192.7	7248.6
32.5°	8547.2	8387.6	8382.1	8158.2	7942.7	7839.1	7732.7	7799.9	7578.8	7595.7	7542.4
35°	8997.8	9020.1	8891.4	8731.9	8625.5	8443.6	8152.6	8272.9	8231.0	8211.4	7981.8
37.5°	9325.2	9238.5	9302.8	9249.7	9148.9	8922.2	8619.9	8734.7	8754.3	8849.4	8583.6
40°	9593.9	9557.5	9728.2	9756.2	9686.2	9196.5	8653.6	8995.0	9288.8	9495.9	9179.7
42.5°	9722.6	9801.0	9980.1	10195.6	10038.8	9515.5	8827.1	9193.6	9848.5	10176.0	9745.0
45°	9896.1	9795.4	10061.3	10455.9	10458.7	9784.2	8995.0	9462.3	10285.2	10760.9	10131.3
47.5°	9719.9	9770.2	10044.5	10545.5	10674.1	10066.9	9448.4	9843.0	10766.6	11189.2	10489.5
50°	9325.2	9425.9	9926.9	10447.5	10836.5	10366.3	9968.9	10254.4	11211.5	11533.4	10548.2
52.5°	8913.8	8969.8	9753.4	10523.0	10909.3	10752.5	10665.8	10822.5	11754.5	11922.4	10621.0
55°	7794.3	8060.2	9179.7	10489.5	11264.7	11449.4	11382.3	11611.8	12370.2	12538.1	11018.4
56°	7276.6	7416.5	8835.5	10332.8	11334.7	11704.1	11670.5	11774.1	12697.6	12873.9	11080.0
57.5°	6319.4	6330.6	7534.0	9638.7	11071.6	11779.6	11746.1	11827.2	12633.2	12512.9	10539.8
60°	3954.6	4128.0	5127.2	7413.8	9414.7	10928.9	11119.2	10467.1	10651.8	10397.1	8200.2
62.5°	2048.7	2023.4	2686.7	4335.2	6249.5	7825.1	8001.4	7970.7	7685.2	7313.0	5356.7
65°	1021.5	1027.1	1405.0	2146.6	3201.7	4097.3	4589.8	4643.0	3884.6	3573.9	2541.2
67.5°	741.7	769.6	1010.3	1312.5	1508.5	1687.6	2068.2	2029.1	1536.5	1460.9	1354.6
70°	576.5	601.7	820.0	1002.0	909.5	909.5	990.7	1024.3	1094.3	1125.1	1161.4
72.5°	419.8	439.4	626.9	691.3	596.1	640.9	741.7	820.0	892.8	904.0	946.0
75°	288.3	305.0	411.4	380.6	358.3	442.2	542.9	615.7	668.8	696.9	722.1
77.5°	187.5	193.1	235.1	198.7	229.5	285.4	352.6	414.2	467.3	489.8	495.3
80°	83.9	92.3	100.8	126.0	159.5	204.3	251.9	302.3	335.8	344.2	361.0
82.5°	47.6	47.6	61.6	89.6	117.6	148.4	181.9	218.3	257.5	265.8	263.1
85°	25.2	25.2	36.4	53.2	72.7	86.8	83.9	86.8	92.3	106.4	103.5
87.5°	8.4	8.4	11.2	11.2	14.0	16.8	14.0	19.6	25.2	25.2	25.2
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°	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5	5748.5
2.5°	5740.1	5765.3	5731.7	5804.5	5804.5	5790.5	5720.5	5742.9	5759.7	5759.7	5773.7
5°	5849.2	5840.8	5863.3	5776.5	5723.3	5703.7	5588.9	5533.0	5485.4	5482.6	5440.7
7.5°	5910.8	5888.4	5880.0	5815.7	5580.5	5437.8	5191.6	5048.9	5018.1	4908.9	4950.9
10°	6008.8	6050.7	6008.8	5658.9	5331.5	5004.0	4763.3	4542.2	4455.5	4385.6	4343.6
12.5°	6210.3	6190.7	5947.2	5474.2	5015.2	4626.3	4268.0	4035.7	3948.9	3887.4	3881.8
15°	6381.0	6283.0	5910.8	5183.2	4522.6	4108.5	3814.6	3649.5	3610.3	3615.9	3641.1
17.5°	6439.8	6372.6	5720.5	4880.9	4156.1	3669.1	3531.9	3506.7	3543.1	3585.1	3596.3
20°	6532.1	6425.7	5642.2	4469.5	3702.7	3394.8	3386.4	3475.9	3543.1	3604.7	3613.1
22.5°	6725.2	6456.5	5387.4	4080.4	3392.0	3313.6	3394.8	3470.4	3573.9	3624.3	3579.5
25°	6781.2	6389.4	5029.3	3613.1	3196.1	3263.2	3350.0	3453.6	3526.3	3554.3	3573.9
27.5°	6828.8	6285.8	4545.1	3302.4	3134.5	3260.5	3350.0	3436.7	3475.9	3501.2	3523.5
30°	6963.1	6255.0	4125.3	3095.4	3095.4	3204.5	3319.3	3341.6	3394.8	3425.6	3464.8
32.5°	7030.3	6042.3	3694.3	2963.8	3056.2	3232.5	3240.9	3282.8	3285.6	3310.8	3268.9
35°	7206.6	5891.2	3294.0	2868.7	3072.9	3204.5	3246.5	3221.3	3084.1	3017.0	3031.0
37.5°	7335.4	5815.7	3005.8	2857.5	3075.8	3235.2	3257.7	3067.4	2924.7	2812.6	2840.6
40°	7682.4	5628.1	2787.5	2837.9	3100.9	3268.9	3207.3	3000.2	2742.7	2628.0	2608.4
42.5°	7948.3	5493.8	2650.3	2815.5	3120.5	3316.4	3182.1	2865.9	2602.8	2496.4	2524.4
45°	8256.1	5463.1	2577.6	2821.1	3154.1	3341.6	3151.3	2762.3	2482.5	2440.4	2432.1
47.5°	8365.3	5242.0	2499.2	2773.5	3145.8	3333.2	3047.8	2684.0	2437.6	2443.3	2465.6
50°	8183.4	5015.2	2440.4	2675.6	3089.7	3257.7	2885.5	2580.4	2412.5	2482.5	2521.7
52.5°	7951.1	4782.9	2320.1	2544.0	2975.0	3140.1	2809.9	2574.8	2387.3	2364.9	2373.3
55°	8021.0	4592.6	2152.2	2364.9	2790.3	2921.8	2725.9	2521.7	2325.7	2241.8	2269.7
56°	7794.3	4396.7	2043.0	2253.0	2664.4	2781.9	2684.0	2474.1	2275.3	2219.3	2219.3
57.5°	7153.5	3739.0	1900.3	2073.8	2398.4	2538.4	2602.8	2446.0	2219.3	2121.4	2124.2
60°	5275.5	2658.7	1704.4	1827.6	1987.0	2099.1	2398.4	2367.7	2079.5	2012.3	1987.0
62.5°	3252.1	1942.3	1564.4	1612.0	1693.2	1785.5	2093.4	2143.8	1931.1	1858.4	1841.5
65°	1821.9	1486.1	1458.1	1477.7	1516.9	1564.4	1738.0	1849.9	1704.4	1592.4	1586.9
67.5°	1332.1	1329.4	1351.7	1368.6	1385.4	1385.4	1427.3	1472.1	1452.5	1362.9	1354.6
70°	1183.9	1192.2	1209.0	1211.8	1217.4	1197.8	1164.3	1150.2	1172.7	1116.7	1105.5
72.5°	976.7	1004.7	1024.3	1027.1	996.3	971.1	926.4	878.8	862.0	850.8	848.0
75°	750.1	769.6	778.0	775.2	764.0	727.6	674.5	626.9	596.1	562.5	579.4
77.5°	506.5	534.5	548.5	548.5	531.8	475.8	450.6	414.2	383.4	347.0	352.6
80°	355.4	375.0	397.4	394.6	366.6	338.7	302.3	268.7	243.5	215.5	212.7
82.5°	265.8	277.1	288.3	282.7	263.1	235.1	209.9	179.1	151.1	131.5	131.5
85°	95.1	103.5	126.0	131.5	142.7	142.7	120.3	100.8	81.2	67.2	67.2
87.5°	28.0	28.0	30.8	30.8	28.0	30.8	25.2	28.0	30.8	19.6	19.6
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)