

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: P530064

Luminaire Tested: **GALN-SA5B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22126 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

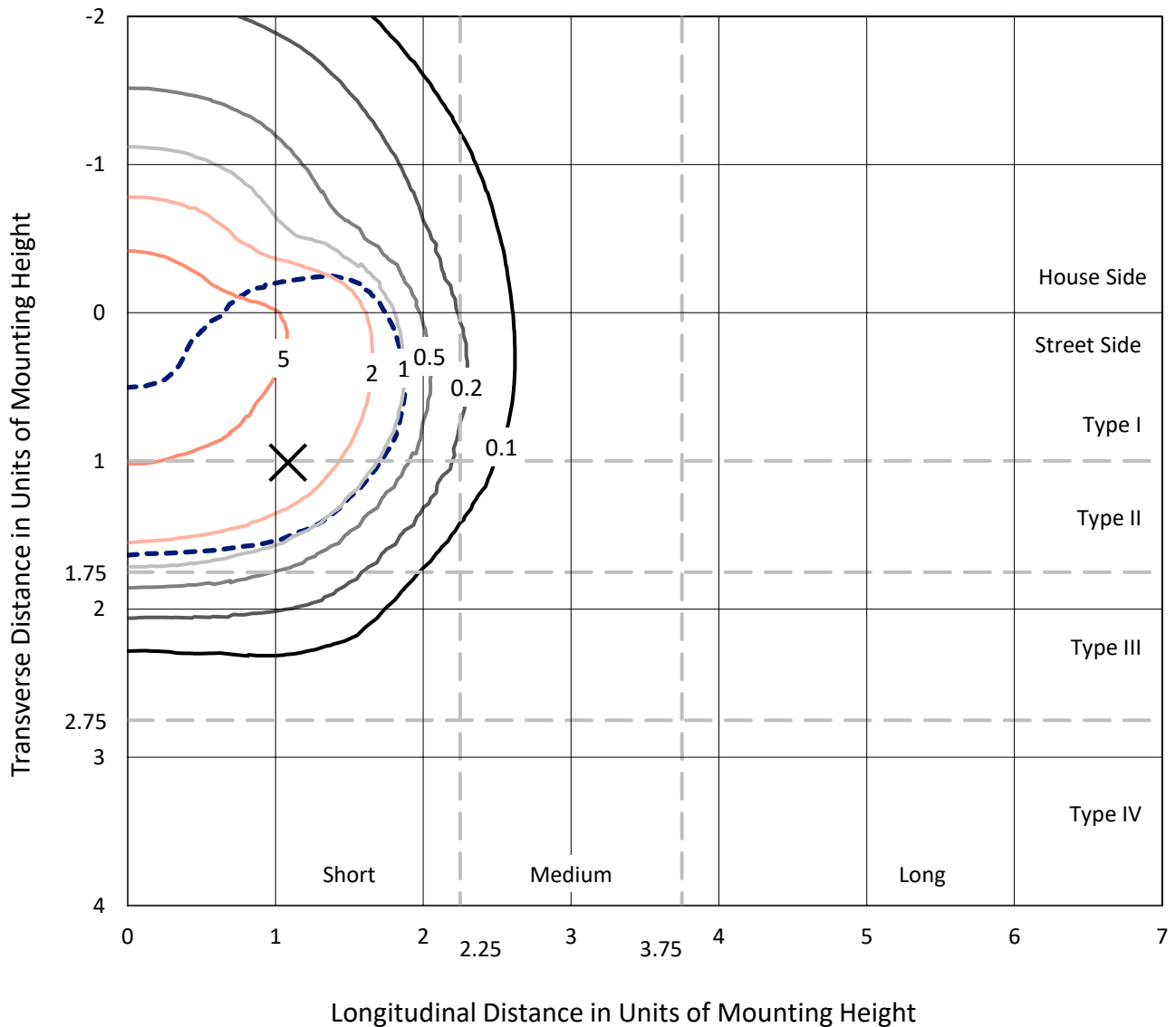
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

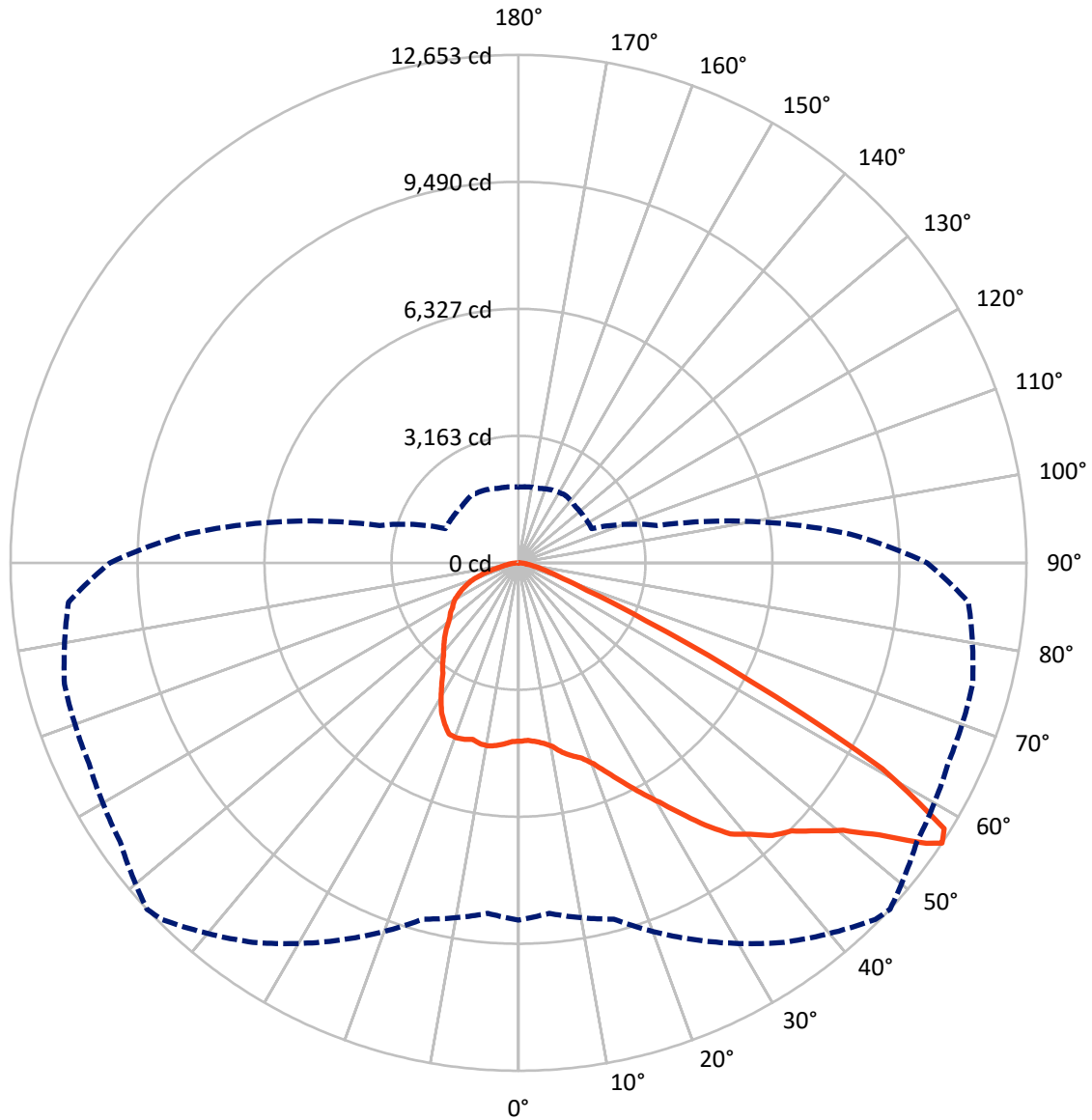
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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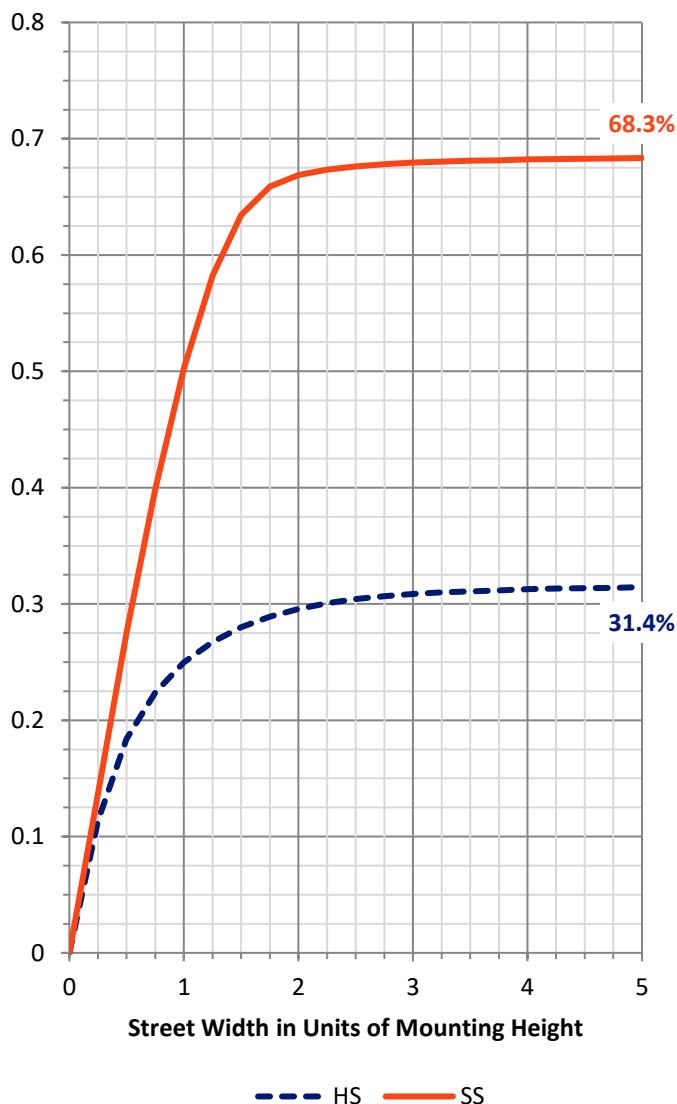
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7011.5	0.0	7011.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15114.5	0.0	15114.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	22126.0	0.0	22126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.1	2.0
10°-20°	1366.1	6.2
20°-30°	2414.9	10.9
30°-40°	3627.0	16.4
40°-50°	4977.8	22.5
50°-60°	5930.3	26.8
60°-70°	2537.8	11.5
70°-80°	718.2	3.2
80°-90°	120.9	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°	22126.0	100.0
0°-180°	22126.0	100.0

**Coefficient of Utilization**



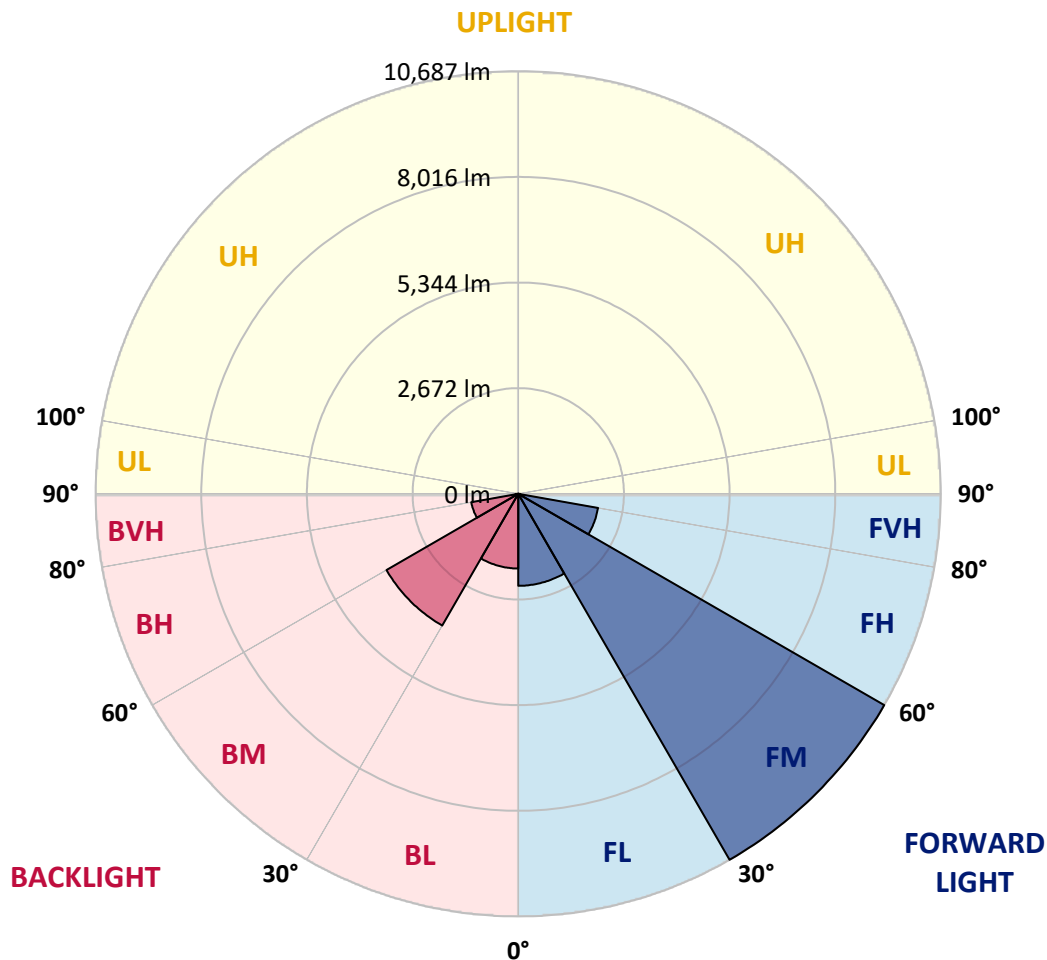
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.2	10.5			
FM (30°-60°)	10687.4	48.3			
FH (60°-80°)	2049.7	9.3			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	1887.8	8.5	B3/2500		
BM (30°-60°)	3847.8	17.4	B3/5000		
BH (60°-80°)	1206.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	69.6	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°	47°	55°	65°	75°	85°
0°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4427.5	4419.0	4413.4	4458.6	4441.6	4444.4	4427.5	4444.4	4455.7	4430.3	4467.0
5°	4419.0	4444.4	4421.9	4436.0	4472.7	4461.4	4472.7	4506.5	4498.1	4489.6	4478.3
7.5°	4498.1	4500.9	4517.8	4523.5	4534.7	4523.5	4540.4	4571.4	4563.0	4515.0	4520.6
10°	4610.9	4616.6	4619.4	4650.4	4670.2	4673.0	4653.3	4625.0	4622.2	4687.1	4642.0
12.5°	4740.7	4726.6	4760.5	4771.8	4794.4	4819.7	4845.1	4785.9	4822.6	4825.4	4771.8
15°	4929.8	4943.9	4904.4	4904.4	4912.9	4915.7	4986.2	4958.0	4952.4	4921.3	4943.9
17.5°	5212.0	5116.0	5113.2	5073.7	5068.1	5090.6	5116.0	5138.6	5214.8	5152.7	5031.4
20°	5418.0	5440.6	5358.7	5310.8	5319.2	5370.0	5344.6	5446.2	5499.8	5398.2	5279.7
22.5°	5782.0	5705.8	5725.6	5618.3	5626.8	5680.4	5677.6	5782.0	5813.0	5652.2	5480.1
25°	6027.5	6007.8	6024.7	5940.0	5951.3	5993.6	6061.4	6233.5	6182.7	6004.9	5607.1
27.5°	6385.9	6346.4	6332.3	6301.2	6289.9	6402.8	6481.8	6665.3	6628.6	6369.0	5832.8
30°	6752.7	6727.3	6741.4	6614.5	6659.6	6899.5	6922.0	7173.2	7156.3	6699.1	6083.9
32.5°	7006.7	7020.8	7046.2	6975.7	7176.0	7367.9	7444.1	7729.1	7743.2	7266.3	6569.3
35°	7415.9	7367.9	7382.0	7463.8	7557.0	7906.9	8031.0	8220.1	8338.6	7861.7	7034.9
37.5°	7672.7	7723.5	7664.2	7794.0	8036.7	8457.1	8570.0	8764.7	8888.9	8448.7	7669.8
40°	8073.4	7991.5	8033.9	8127.0	8375.3	8922.7	8891.7	9092.1	9131.6	8948.1	8262.4
42.5°	8505.1	8465.6	8406.3	8618.0	8826.8	9224.7	9286.8	9193.6	9394.0	9436.3	9109.0
45°	9021.5	9069.5	9077.9	9083.6	9267.0	9614.1	9529.4	9447.6	9679.0	9986.6	9633.9
47.5°	9501.2	9348.8	9458.9	9611.3	9870.9	9873.7	9972.5	9777.8	10023.3	10297.0	10107.9
50°	9662.1	9588.7	9735.4	10023.3	10424.0	10466.3	10477.6	10201.1	10328.0	10545.3	10271.6
52.5°	9600.0	9574.6	9949.9	10395.8	10982.7	11197.2	11253.6	10912.2	10982.7	10883.9	10632.8
55°	9303.7	9379.9	9758.0	10666.7	11566.8	12230.0	12337.2	11905.5	11456.8	11533.0	11256.4
56°	8897.3	8764.7	9188.0	10359.1	11541.4	12565.8	12653.3	12114.3	11809.5	11710.7	11250.8
57.5°	7548.5	7376.4	7932.3	9320.6	10900.9	12438.8	12503.7	12201.8	11750.3	11549.9	10429.6
60°	4419.0	4503.7	5209.2	6428.2	8409.2	10198.2	10415.5	10635.6	10333.7	9436.3	7763.0
62.5°	2133.3	2079.7	2584.8	3685.4	5124.5	6510.0	6445.1	7063.1	7401.8	6704.8	4901.6
65°	1117.5	1111.8	1410.9	2012.0	2816.2	3420.1	3479.4	3812.3	4278.0	3454.0	2488.9
67.5°	821.2	843.7	993.3	1413.8	1811.6	1848.3	1839.9	2006.3	2051.5	1735.4	1529.5
70°	643.4	654.7	764.7	1075.1	1348.9	1207.8	1182.4	1202.1	1334.7	1391.2	1323.5
72.5°	465.6	476.9	570.0	725.2	843.7	824.0	840.9	951.0	1114.6	1173.9	1103.4
75°	310.4	318.9	369.7	443.0	499.5	539.0	570.0	697.0	849.4	883.2	849.4
77.5°	214.5	222.9	256.8	313.2	318.9	344.3	355.6	414.8	507.9	550.3	527.7
80°	121.3	121.3	138.3	160.8	197.5	231.4	237.0	285.0	327.3	355.6	361.2
82.5°	56.4	59.3	73.4	98.8	129.8	160.8	166.5	197.5	228.6	256.8	265.3
85°	28.2	31.0	42.3	59.3	79.0	95.9	93.1	95.9	101.6	95.9	98.8
87.5°	8.5	8.5	11.3	14.1	11.3	14.1	14.1	16.9	19.8	22.6	25.4
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°	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4	4444.4
2.5°	4469.8	4478.3	4421.9	4475.5	4455.7	4452.9	4492.4	4486.8	4500.9	4495.2	4461.4
5°	4472.7	4452.9	4512.2	4458.6	4483.9	4537.6	4500.9	4585.5	4543.2	4571.4	4509.3
7.5°	4560.1	4565.8	4554.5	4577.1	4565.8	4591.2	4571.4	4591.2	4557.3	4560.1	4616.6
10°	4636.3	4619.4	4639.2	4610.9	4630.7	4622.2	4577.1	4563.0	4574.2	4560.1	4596.8
12.5°	4777.4	4746.4	4732.3	4698.4	4675.8	4591.2	4520.6	4481.1	4534.7	4543.2	4526.3
15°	4921.3	4924.2	4859.3	4783.1	4642.0	4515.0	4531.9	4546.0	4546.0	4568.6	4526.3
17.5°	5011.6	5011.6	4952.4	4800.0	4656.1	4582.7	4565.8	4520.6	4481.1	4475.5	4472.7
20°	5169.7	5121.7	4986.2	4797.2	4650.4	4616.6	4489.6	4382.4	4300.5	4272.3	4269.5
22.5°	5350.3	5228.9	5039.9	4802.8	4642.0	4594.0	4357.0	4196.1	4049.4	3987.3	3995.8
25°	5516.8	5322.0	5070.9	4777.4	4610.9	4379.5	4114.3	3891.4	3739.0	3688.2	3662.8
27.5°	5632.4	5420.8	5070.9	4800.0	4495.2	4139.7	3868.8	3583.8	3451.1	3417.3	3422.9
30°	5787.7	5545.0	5158.4	4752.0	4263.8	3829.3	3504.8	3318.5	3239.5	3211.3	3231.0
32.5°	6151.7	5869.5	5279.7	4636.3	3990.1	3518.9	3256.4	3152.0	3036.3	2979.9	2960.1
35°	6546.7	6177.1	5398.2	4441.6	3682.5	3236.7	3073.0	2977.1	2838.8	2776.7	2788.0
37.5°	7105.5	6572.1	5406.7	4119.9	3349.6	3078.7	2929.1	2779.5	2666.7	2570.7	2542.5
40°	7858.9	7111.1	5386.9	3781.3	3081.5	2892.4	2782.4	2596.1	2469.1	2401.4	2415.5
42.5°	8522.0	7743.2	5305.1	3397.5	2838.8	2765.4	2641.3	2457.8	2333.7	2263.1	2257.5
45°	9080.8	8208.8	5149.9	3070.2	2635.6	2624.3	2480.4	2339.3	2240.6	2175.7	2203.9
47.5°	9597.2	8584.1	4915.7	2742.9	2449.4	2472.0	2333.7	2246.2	2184.1	2124.9	2122.0
50°	9783.4	8578.5	4709.7	2472.0	2299.8	2288.5	2282.9	2189.8	2124.9	2074.1	2096.6
52.5°	10093.8	8674.4	4486.8	2285.7	2164.4	2167.2	2186.9	2119.2	2045.9	2014.8	2043.0
55°	10539.7	8688.5	3995.8	2068.4	2051.5	2071.3	2071.3	2026.1	1964.0	1938.6	1924.5
56°	10175.7	8268.1	3583.8	2012.0	1995.1	1995.1	2048.7	1997.9	1921.7	1901.9	1885.0
57.5°	9385.5	7243.7	2999.6	1944.3	1918.9	1958.4	1986.6	1933.0	1862.4	1834.2	1851.1
60°	6473.4	4901.6	2254.7	1797.5	1797.5	1862.4	1885.0	1806.0	1775.0	1772.1	1749.6
62.5°	3778.5	2855.7	1763.7	1664.9	1670.5	1724.2	1741.1	1695.9	1656.4	1704.4	1727.0
65°	2003.5	1704.4	1512.5	1523.8	1526.6	1569.0	1642.3	1639.5	1636.7	1650.8	1653.6
67.5°	1450.4	1416.6	1374.2	1363.0	1368.6	1399.6	1473.0	1529.5	1526.6	1492.8	1467.4
70°	1292.4	1244.4	1219.0	1221.9	1199.3	1236.0	1295.2	1331.9	1267.0	1227.5	1210.6
72.5°	1075.1	1061.0	1044.1	1046.9	1001.8	993.3	925.6	925.6	908.6	897.4	917.1
75°	821.2	815.5	824.0	809.9	761.9	711.1	671.6	634.9	578.5	555.9	544.6
77.5°	519.2	536.2	555.9	524.9	505.1	468.4	428.9	392.2	347.1	321.7	321.7
80°	352.7	366.8	381.0	375.3	352.7	318.9	287.8	248.3	217.3	197.5	194.7
82.5°	268.1	279.4	299.1	276.5	254.0	225.7	200.4	172.1	143.9	121.3	121.3
85°	95.9	110.1	121.3	132.6	141.1	143.9	124.2	101.6	81.8	64.9	62.1
87.5°	25.4	28.2	31.0	28.2	28.2	28.2	31.0	28.2	25.4	19.8	19.8
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)