

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: P530060

Luminaire Tested: **GALN-SA5B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
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-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21768 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

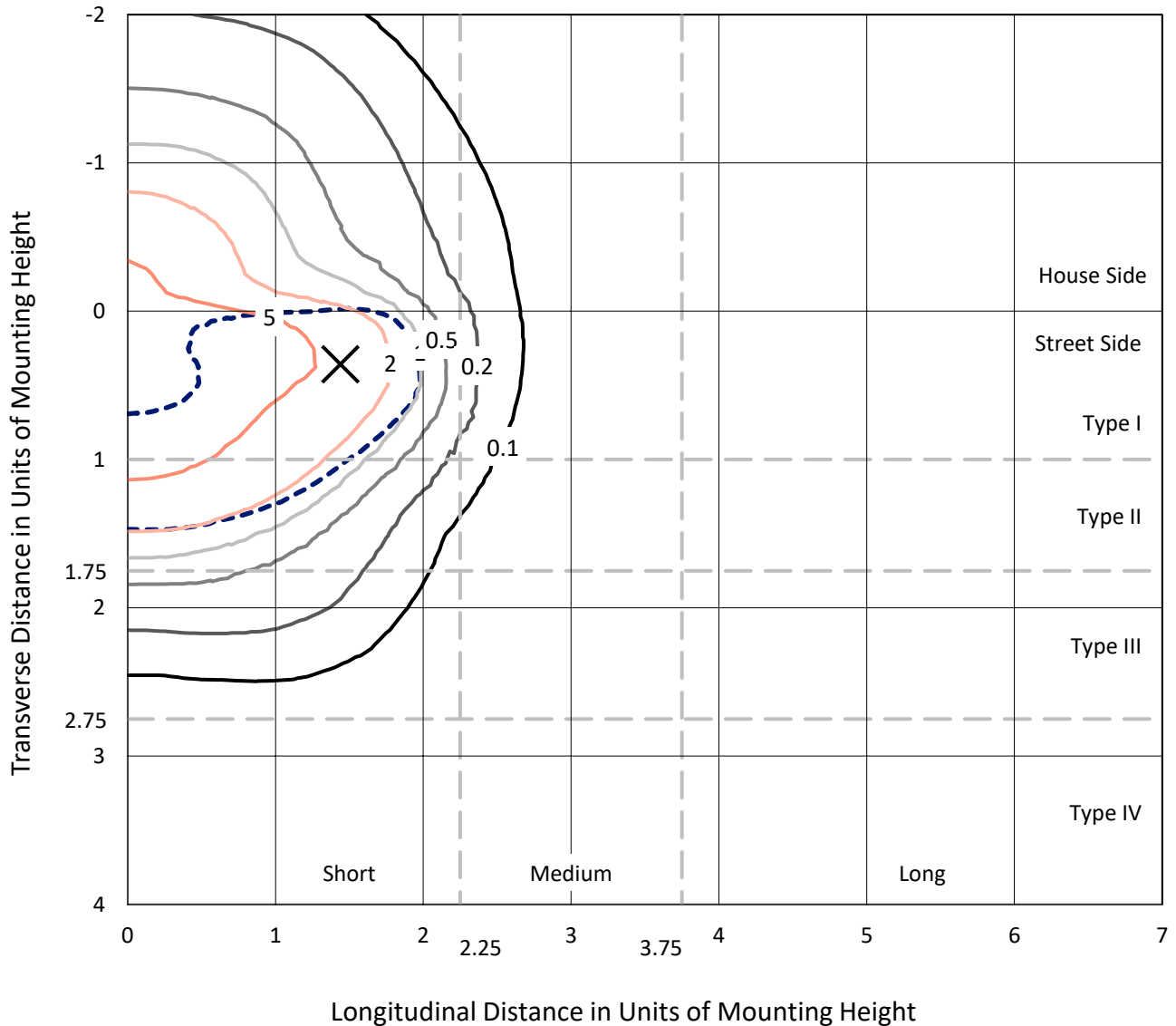
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

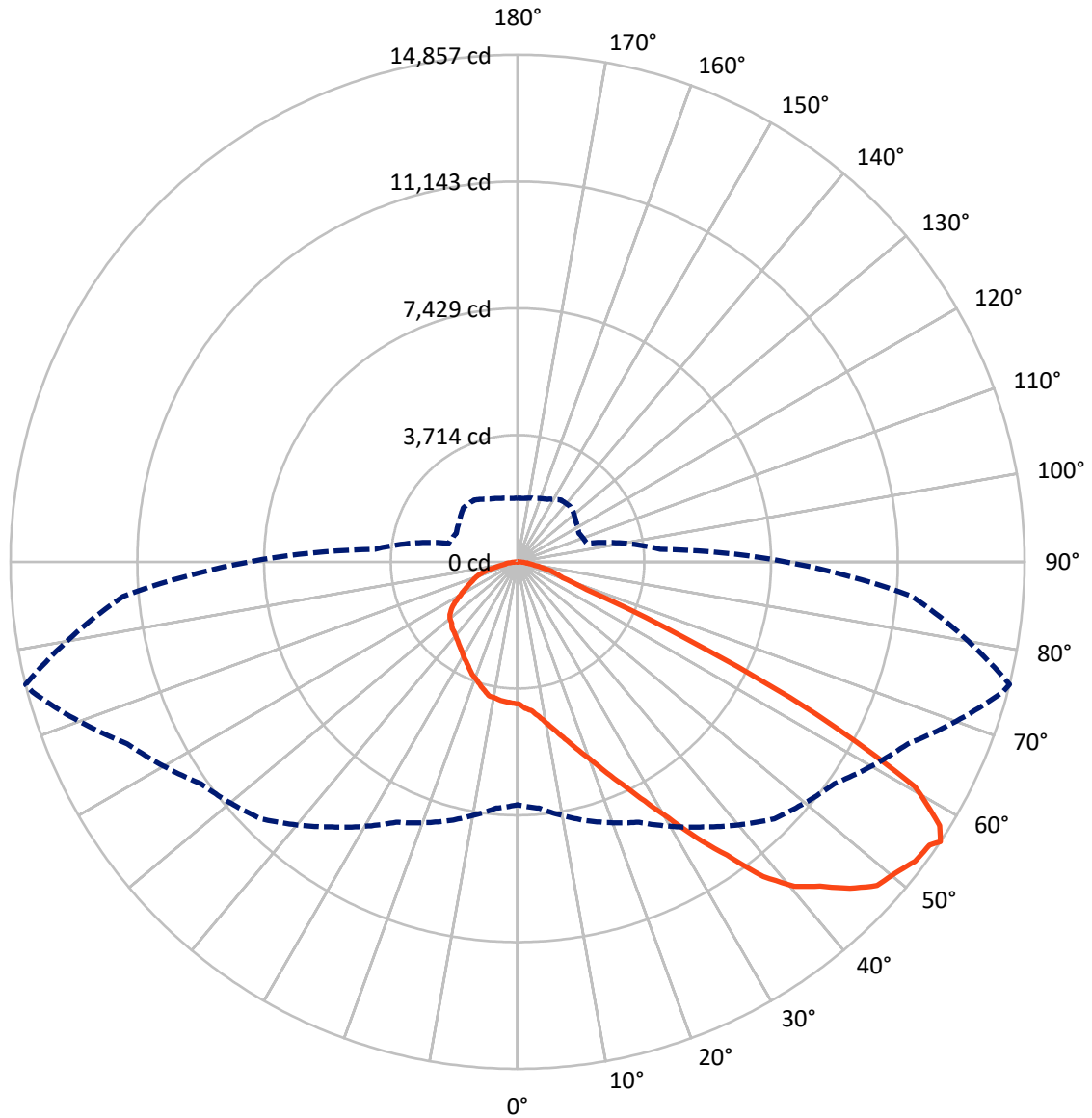
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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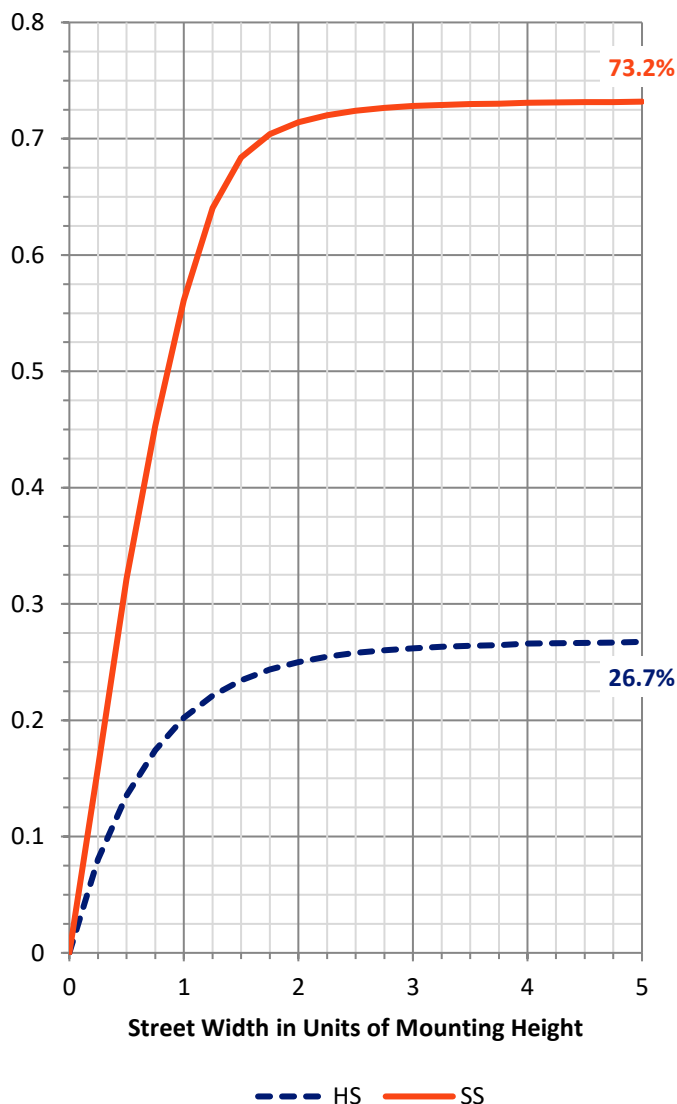
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5852.8	0.0	5852.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	15915.2	0.0	15915.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	21768.0	0.0	21768.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.0	1.9
10°-20°	1297.5	6.0
20°-30°	2269.2	10.4
30°-40°	3552.9	16.3
40°-50°	5168.4	23.7
50°-60°	5680.4	26.1
60°-70°	2535.5	11.6
70°-80°	732.3	3.4
80°-90°	118.8	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°	21768.0	100.0
0°-180°	21768.0	100.0

**Coefficient of Utilization**

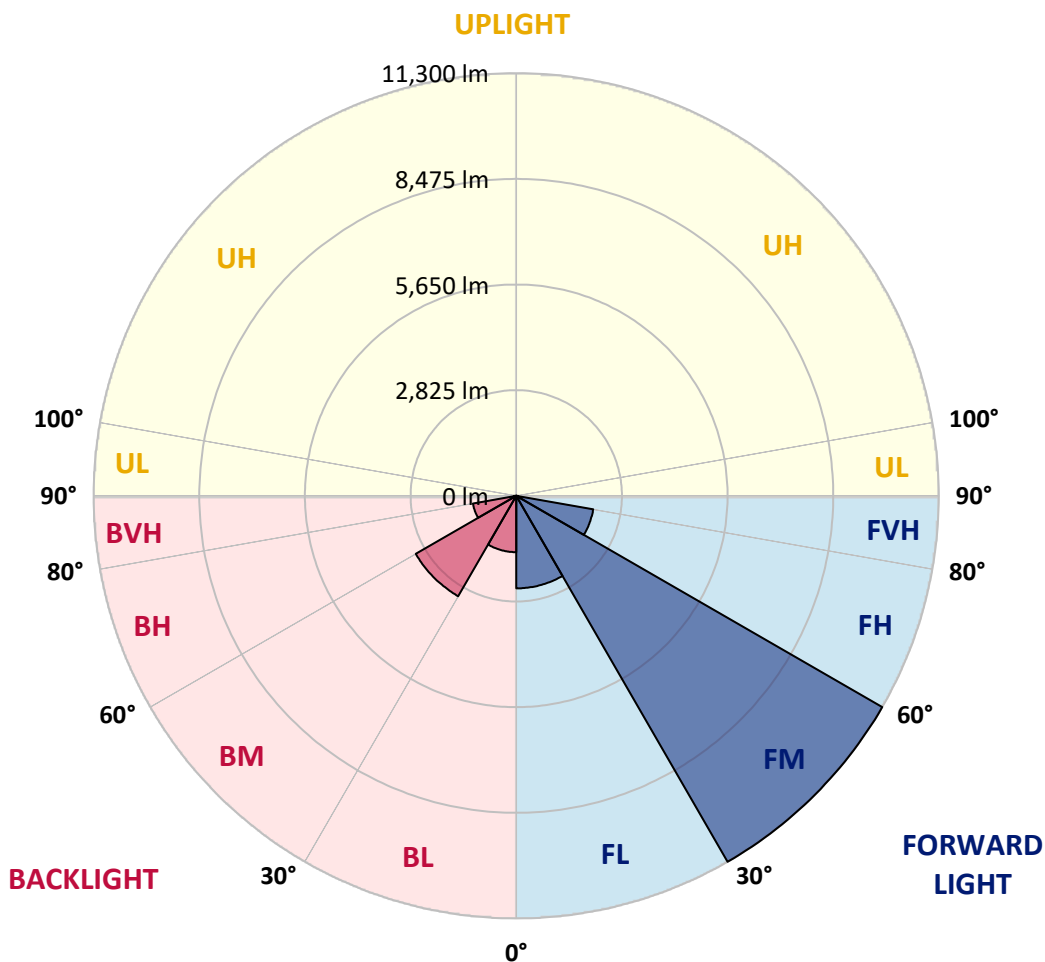


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.7	11.4			
FM (30°-60°)	11300.2	51.9			
FH (60°-80°)	2090.2	9.6			G2/5000
FVH (80°-90°)	51.1	0.2			G1/100
BL (0°-30°)	1506.0	6.9	B3/2500		
BM (30°-60°)	3101.5	14.2	B3/5000		
BH (60°-80°)	1177.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	67.7	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°	76°	85°
0°	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0
2.5°	4588.3	4514.9	4509.3	4489.5	4500.8	4450.0	4396.4	4325.9	4252.5	4297.7	4190.4
5°	4910.0	4811.2	4850.7	4783.0	4791.5	4723.8	4613.7	4531.9	4441.6	4388.0	4311.8
7.5°	5022.9	5031.3	5059.5	5048.3	4991.8	4991.8	4918.5	4774.5	4616.5	4585.5	4458.5
10°	5175.2	5178.1	5147.0	5155.5	5234.5	5197.8	5132.9	5070.8	4867.7	4831.0	4605.2
12.5°	5228.9	5178.1	5228.9	5274.0	5367.1	5417.9	5403.8	5358.7	5141.4	5116.0	4785.8
15°	5237.3	5206.3	5248.6	5350.2	5432.0	5646.5	5753.7	5722.7	5434.9	5437.7	4989.0
17.5°	5197.8	5240.1	5257.1	5344.6	5533.6	5734.0	6044.4	6086.7	5849.7	5813.0	5245.8
20°	5251.4	5220.4	5243.0	5322.0	5573.1	5886.3	6292.7	6572.1	6239.1	6213.7	5511.0
22.5°	5457.4	5415.1	5409.5	5460.2	5640.8	5965.4	6555.1	7057.4	6713.1	6727.3	5841.2
25°	5618.3	5640.8	5621.1	5618.3	5731.1	6083.9	6902.2	7635.9	7356.5	7274.7	6230.6
27.5°	5894.8	5948.4	5908.9	5962.5	5937.1	6261.7	7150.5	8276.4	8050.7	7940.6	6583.3
30°	6278.6	6306.8	6270.1	6270.1	6193.9	6510.0	7376.3	8945.2	8852.1	8702.5	6998.1
32.5°	6783.7	6826.0	6752.6	6710.3	6699.0	6879.6	7782.6	9605.5	9763.5	9636.6	7548.4
35°	7452.5	7427.1	7339.6	7300.1	7147.7	7446.8	8386.5	10364.6	10779.4	10553.7	8214.4
37.5°	8042.2	8002.7	7997.1	7777.0	7813.7	8059.2	8900.1	10940.3	11764.2	11699.3	8917.0
40°	8592.5	8629.2	8688.4	8564.3	8507.8	8778.7	9498.3	11380.5	12528.9	12503.5	9458.8
42.5°	9182.2	9148.4	9252.8	9148.4	9063.7	9447.5	10147.3	11685.2	13200.5	12991.7	10026.0
45°	10037.3	9930.0	9966.7	9975.2	9913.1	10054.2	10415.4	11905.3	13671.8	13649.2	10440.8
47.5°	10751.2	10754.0	10691.9	10644.0	10454.9	10596.0	10714.5	12043.6	14213.6	14176.9	10601.6
50°	11016.4	10979.8	11160.4	11264.8	11276.0	10988.2	10948.7	12119.8	14498.6	14337.7	10762.5
52.5°	10062.7	10096.5	10381.5	11002.3	11360.7	11391.7	11222.4	12277.8	14614.3	14580.4	10892.3
55°	8098.7	8262.3	8730.8	9447.5	10296.9	11230.9	11518.7	12441.5	14676.4	14648.1	11467.9
56°	7119.5	7246.5	7856.0	8417.5	9484.2	10646.8	11332.5	12616.4	14724.3	14857.0	11603.4
57.5°	5731.1	5877.9	6315.3	6953.0	8211.5	9535.0	10818.9	12402.0	14538.1	14588.9	11702.1
60°	3583.7	3597.8	4122.7	4543.2	5429.2	6721.6	8256.7	10790.7	13454.5	13381.1	10511.3
62.5°	2350.6	2353.4	2830.3	3174.6	3578.1	3874.4	4859.2	7156.2	9927.2	9797.4	7483.5
65°	1650.8	1687.5	2057.1	2517.1	2680.7	2525.5	2494.5	3772.8	5544.9	5358.7	4021.1
67.5°	1207.7	1210.6	1537.9	2031.7	2268.8	1921.7	1560.5	1842.7	2195.4	2189.7	1862.4
70°	798.6	832.4	1083.6	1518.1	1789.0	1543.5	1275.5	1317.8	1396.8	1396.8	1385.5
72.5°	465.6	496.6	663.1	962.2	1004.6	965.1	1010.2	1128.7	1179.5	1176.7	1162.6
75°	265.3	279.4	316.0	400.7	499.5	589.8	742.1	855.0	905.8	936.8	900.2
77.5°	155.2	163.7	186.2	228.6	259.6	318.9	403.5	482.5	550.3	541.8	547.4
80°	81.8	81.8	104.4	135.4	180.6	225.7	268.1	313.2	349.9	358.4	366.8
82.5°	48.0	50.8	67.7	98.8	129.8	160.8	206.0	237.0	270.9	273.7	279.4
85°	25.4	28.2	42.3	64.9	87.5	98.8	101.6	95.9	104.4	98.8	112.9
87.5°	8.5	8.5	14.1	11.3	11.3	14.1	16.9	16.9	22.6	22.6	22.6
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°	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0	4165.0
2.5°	4187.6	4187.6	4139.6	4049.3	4035.2	3998.5	3964.7	3961.9	3936.5	3913.9	3902.6
5°	4266.6	4179.1	4108.6	4026.8	3930.8	3885.7	3834.9	3778.4	3755.9	3778.4	3775.6
7.5°	4356.9	4283.5	4071.9	3919.5	3809.5	3764.3	3707.9	3648.6	3654.3	3654.3	3614.8
10°	4444.4	4345.6	4007.0	3812.3	3651.5	3617.6	3586.6	3609.1	3637.3	3643.0	3617.6
12.5°	4591.1	4368.2	3976.0	3705.1	3603.5	3530.1	3549.9	3611.9	3671.2	3654.3	3674.0
15°	4701.2	4388.0	3834.9	3595.0	3468.0	3501.9	3572.4	3614.8	3713.5	3702.2	3722.0
17.5°	4808.4	4399.2	3696.6	3448.3	3394.7	3487.8	3541.4	3662.7	3693.8	3761.5	3786.9
20°	5028.5	4421.8	3555.5	3358.0	3341.1	3448.3	3541.4	3597.8	3665.6	3724.8	3724.8
22.5°	5141.4	4410.5	3462.4	3239.5	3293.1	3360.8	3445.5	3541.4	3541.4	3597.8	3600.7
25°	5282.5	4365.4	3315.7	3183.0	3222.5	3287.4	3383.4	3349.5	3386.2	3386.2	3431.4
27.5°	5443.3	4269.4	3188.7	3081.4	3160.5	3231.0	3245.1	3222.5	3180.2	3174.6	3157.6
30°	5573.1	4150.9	3095.6	3047.6	3112.5	3152.0	3106.8	3058.9	2985.5	2979.9	2940.4
32.5°	5750.9	4004.2	2979.9	2962.9	3036.3	3039.1	3025.0	2951.6	2844.4	2799.3	2754.1
35°	6050.0	3919.5	2892.4	2917.8	2940.4	2931.9	2906.5	2827.5	2720.2	2700.5	2683.6
37.5°	6270.1	3857.4	2802.1	2833.1	2852.9	2864.2	2788.0	2700.5	2703.3	2663.8	2652.5
40°	6518.4	3817.9	2728.7	2742.8	2745.6	2782.3	2689.2	2646.9	2666.6	2641.2	2658.2
42.5°	6837.3	3829.2	2652.5	2641.2	2694.9	2680.7	2635.6	2579.2	2590.4	2514.3	2525.5
45°	7006.6	3905.4	2607.4	2556.6	2615.8	2613.0	2553.8	2500.1	2432.4	2285.7	2291.3
47.5°	7119.5	3925.2	2500.1	2466.3	2528.4	2565.0	2497.3	2373.2	2277.2	2172.8	2147.4
50°	7235.2	3961.9	2449.4	2378.8	2404.2	2491.7	2407.0	2288.5	2195.4	2102.3	2116.4
52.5°	7336.8	4032.4	2350.6	2246.2	2291.3	2387.3	2342.1	2198.2	2096.6	2020.4	1997.9
55°	7788.3	4190.4	2184.1	2048.7	2155.9	2277.2	2251.8	2076.9	1966.8	1927.3	1921.7
56°	7858.8	4196.1	2096.6	1980.9	2079.7	2240.5	2209.5	2023.3	1924.5	1862.4	1865.2
57.5°	7870.1	4128.3	1972.5	1918.8	2003.5	2186.9	2147.4	1980.9	1845.5	1789.0	1772.1
60°	6924.8	3222.5	1817.3	1783.4	1882.2	2023.3	2009.1	1865.2	1712.9	1648.0	1679.0
62.5°	4720.9	2361.9	1695.9	1690.3	1741.1	1879.3	1842.7	1712.9	1585.9	1543.5	1523.8
65°	2748.5	1791.9	1577.4	1554.8	1597.2	1670.5	1695.9	1560.5	1427.8	1399.6	1391.2
67.5°	1622.6	1481.5	1425.0	1388.3	1374.2	1419.4	1439.1	1360.1	1227.5	1188.0	1221.9
70°	1357.3	1317.8	1320.6	1258.5	1224.7	1193.6	1176.7	1106.2	996.1	945.3	931.2
72.5°	1171.1	1154.1	1142.8	1086.4	1055.4	984.8	911.5	840.9	759.1	716.7	719.6
75°	894.5	888.9	894.5	866.3	812.7	756.3	688.5	598.2	536.1	482.5	493.8
77.5°	533.3	550.3	558.7	547.4	524.9	474.1	431.7	372.5	313.2	270.9	265.3
80°	366.8	380.9	395.1	380.9	358.4	321.7	276.5	231.4	189.1	166.5	160.8
82.5°	279.4	293.5	301.9	287.8	259.6	220.1	189.1	158.0	124.2	101.6	95.9
85°	101.6	115.7	112.9	135.4	146.7	141.1	121.3	93.1	70.5	50.8	48.0
87.5°	28.2	25.4	28.2	28.2	28.2	25.4	22.6	22.6	22.6	14.1	11.3
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)