

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: P459314

Luminaire Tested: **GALN-SA7D-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50480 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

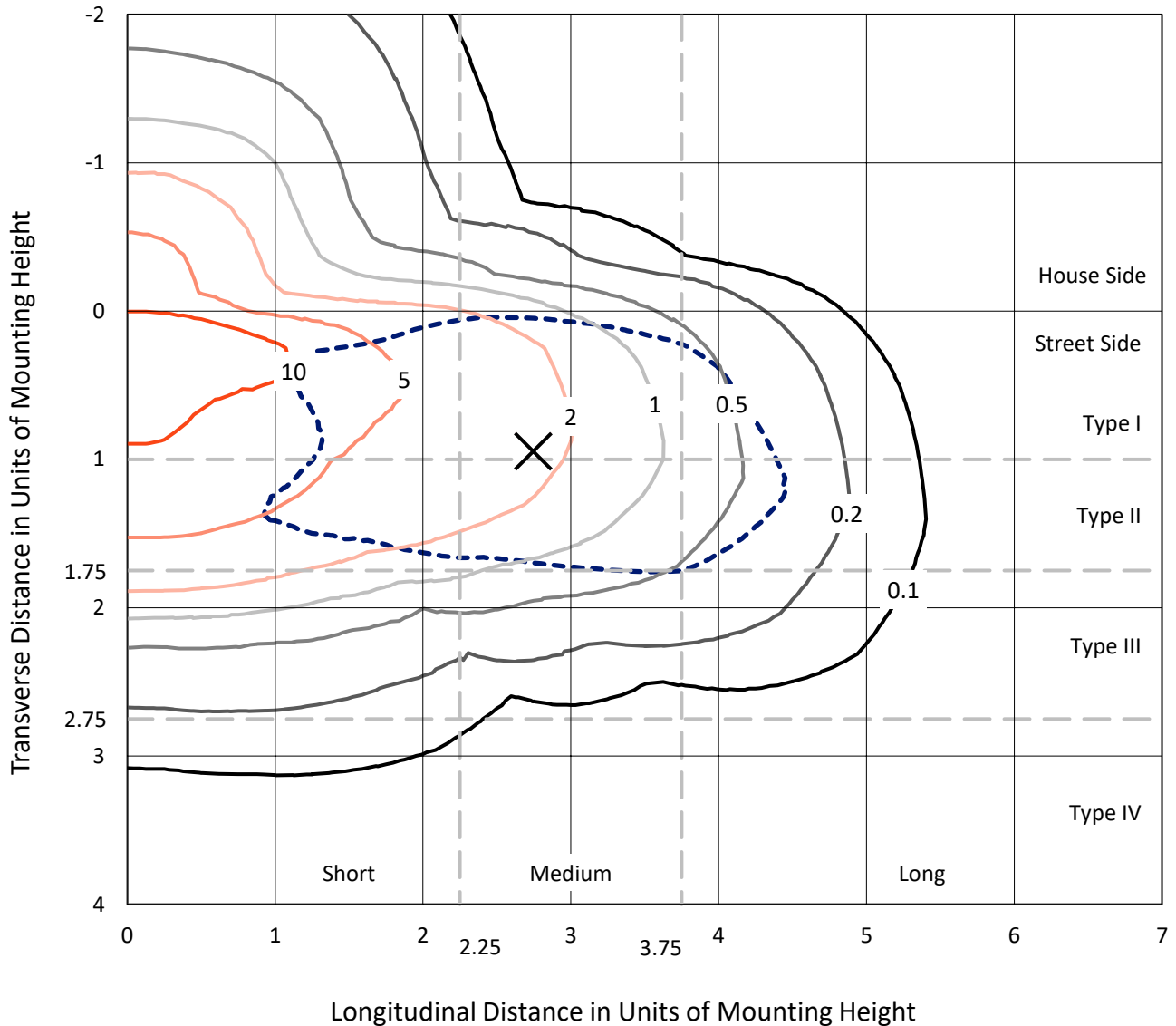
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

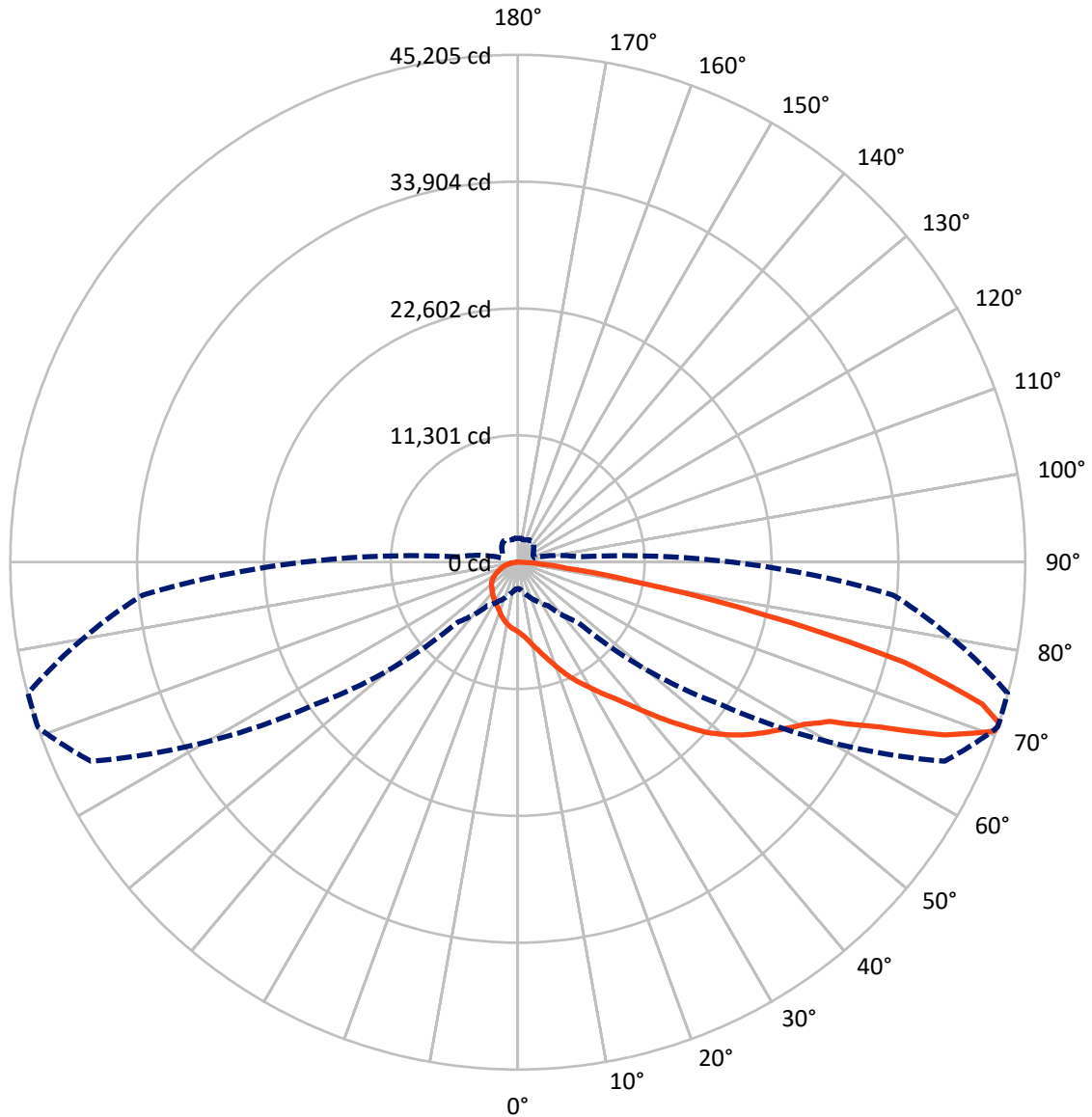
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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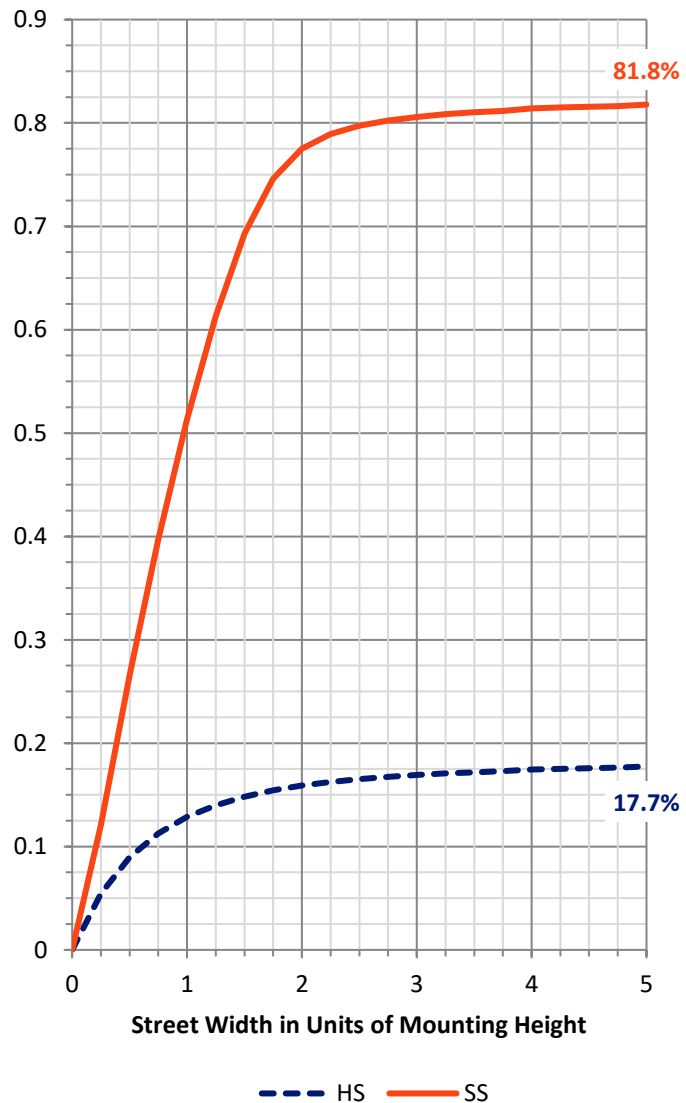
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9078.7	0.0	9078.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	41401.3	0.0	41401.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	50480.0	0.0	50480.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.1	1.2
10°-20°	2021.0	4.0
20°-30°	3531.9	7.0
30°-40°	5253.3	10.4
40°-50°	7740.0	15.3
50°-60°	10836.2	21.5
60°-70°	12119.9	24.0
70°-80°	7403.3	14.7
80°-90°	952.4	1.9
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°	50480.0	100.0
0°-180°	50480.0	100.0



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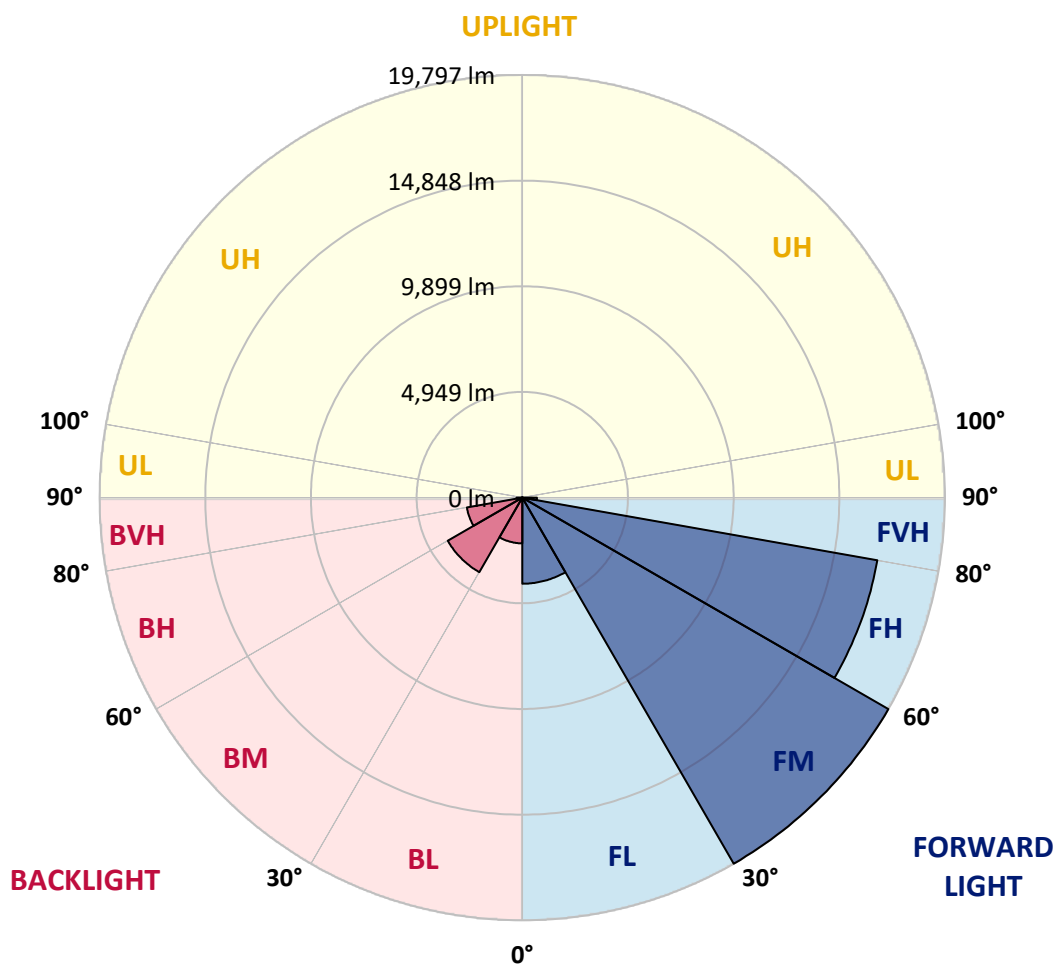
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4033.4	8.0			
FM	(30°-60°)	19797.3	39.2			
FH	(60°-80°)	16885.4	33.4			G5
FVH	(80°-90°)	685.3	1.4			G4/750
BL	(0°-30°)	2141.6	4.2	B3/2500		
BM	(30°-60°)	4032.2	8.0	B3/5000		
BH	(60°-80°)	2637.8	5.2	B4/5000		G4/5000
BVH	(80°-90°)	267.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4
2.5°	6877.9	6844.7	6847.4	6800.3	6739.2	6672.6	6578.3	6495.1	6428.5	6389.6	6275.9
5°	7621.5	7588.2	7546.6	7443.9	7399.6	7235.9	7027.8	6839.1	6694.8	6614.4	6386.9
7.5°	8223.6	8215.2	8204.2	8145.9	8032.1	7804.6	7627.1	7299.7	7086.0	6933.4	6545.0
10°	8595.4	8609.2	8617.5	8628.6	8581.5	8462.2	8218.0	7804.6	7532.7	7338.5	6750.3
12.5°	8784.0	8797.9	8845.1	8947.7	9011.5	8997.7	8797.9	8392.8	8018.3	7763.0	6969.5
15°	8900.5	8922.7	9006.0	9141.9	9355.6	9491.5	9394.4	9019.8	8609.2	8306.8	7230.3
17.5°	9028.2	9053.1	9144.7	9338.9	9619.1	9913.2	10018.7	9696.8	9250.1	8889.4	7521.6
20°	9100.3	9133.6	9264.0	9519.3	9846.6	10273.9	10623.5	10454.3	9965.9	9566.4	7857.3
22.5°	9216.8	9244.6	9355.6	9627.5	10018.7	10554.1	11228.3	11192.3	10762.2	10246.2	8226.3
25°	9533.1	9577.5	9633.0	9796.7	10174.0	10839.9	11730.5	11980.2	11533.5	10956.4	8564.8
27.5°	10129.6	10165.7	10162.9	10185.1	10398.8	11086.8	12166.1	12759.9	12299.3	11675.0	8892.2
30°	10809.4	10823.3	10834.4	10784.4	10831.6	11339.3	12565.6	13531.2	13070.6	12413.0	9178.0
32.5°	11636.2	11663.9	11569.6	11442.0	11403.1	11713.9	12895.8	14302.5	13983.4	13162.2	9461.0
35°	12612.8	12684.9	12493.5	12268.8	12110.6	12252.1	13339.7	15090.4	14918.4	14119.4	9835.5
37.5°	13728.2	13816.9	13639.4	13198.2	12973.5	13012.3	13919.6	16064.3	16100.3	15209.7	10393.2
40°	14641.0	14757.5	14763.0	14138.8	13797.5	13841.9	14654.8	17113.0	17526.4	16558.1	11050.8
42.5°	15243.0	15356.8	15476.1	15109.8	14751.9	15004.4	15512.1	18250.6	19130.1	18195.1	11969.1
45°	15903.3	16006.0	16072.6	15906.1	15706.4	16361.1	16547.0	19460.2	20839.2	20023.5	12973.5
47.5°	16669.1	16782.9	16846.7	16688.5	16613.6	17551.4	17662.4	20589.5	22664.8	21799.1	14083.3
50°	17690.1	17776.1	17742.8	17642.9	17626.3	18464.2	18733.3	21646.5	24171.3	23710.7	15234.7
52.5°	18960.8	19063.5	19099.6	18958.1	18894.2	19116.2	19596.2	22609.3	25541.9	25353.2	16463.8
55°	19729.4	19893.1	20442.4	20664.4	20817.0	19959.6	20525.6	23671.9	26771.0	27084.5	17784.4
57.5°	18744.4	18955.3	20184.4	21294.2	22728.6	22068.3	21843.5	24781.7	28000.1	28763.1	19365.9
60°	16341.7	16388.9	17973.1	20017.9	22903.4	24778.9	24593.0	26546.3	29331.9	30455.5	21449.5
62.5°	11336.5	11436.4	13309.2	16572.0	20744.8	25755.5	29270.8	29592.7	31240.7	32988.6	24504.2
65°	5845.8	5715.4	7421.7	10415.4	15639.8	23436.1	33060.8	35194.3	35380.2	36950.6	28804.7
67.5°	3598.5	3656.8	4455.8	6081.7	9247.4	17032.6	32664.0	42039.0	41059.6	41814.3	32797.2
70°	2702.3	2774.5	3323.8	4161.7	5637.8	9738.4	26268.8	43698.1	45066.0	44871.7	34012.4
71°	2350.0	2424.9	2996.4	3787.2	4736.0	7516.1	22132.1	41961.3	45204.7	45171.4	33554.6
72.5°	2003.2	2050.3	2497.0	3207.3	3992.5	5268.7	16627.5	37633.1	43276.4	44383.4	31920.4
75°	1573.1	1609.2	1809.0	2447.1	3143.5	3235.0	8922.7	28213.7	35543.9	37652.5	26574.0
77.5°	1281.8	1306.8	1409.4	1817.3	2424.9	2291.7	4680.6	18364.3	22268.0	24390.5	15653.6
80°	1018.2	1046.0	1107.0	1231.9	1817.3	1634.2	2233.5	9305.6	10756.7	10734.5	6248.1
82.5°	790.7	799.1	871.2	904.5	1243.0	1159.7	1209.7	3939.8	4364.3	4508.5	2255.7
85°	499.4	524.4	771.3	693.6	743.6	679.7	596.5	1564.8	1928.3	1900.5	901.7
87.5°	152.6	160.9	260.8	294.1	330.2	296.9	219.2	460.6	563.2	610.4	224.7
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°	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4	6195.4
2.5°	6231.5	6201.0	6092.8	6004.0	5920.8	5829.2	5751.5	5729.3	5709.9	5701.6	5698.8
5°	6289.8	6198.2	5984.6	5809.8	5671.0	5543.4	5463.0	5426.9	5390.8	5390.8	5401.9
7.5°	6373.0	6206.5	5876.4	5615.6	5440.8	5321.5	5263.2	5257.6	5266.0	5274.3	5277.1
10°	6464.5	6201.0	5718.2	5393.6	5238.2	5182.7	5185.5	5232.7	5277.1	5310.4	5315.9
12.5°	6553.3	6167.7	5532.3	5185.5	5085.6	5096.7	5174.4	5279.8	5365.9	5413.0	5415.8
15°	6653.2	6115.0	5307.6	4988.5	4955.2	5041.2	5185.5	5346.4	5476.8	5554.5	5562.8
17.5°	6736.4	6026.2	5071.8	4797.1	4838.7	4996.8	5196.6	5404.7	5562.8	5659.9	5676.6
20°	6830.8	5912.4	4827.6	4614.0	4733.3	4946.9	5174.4	5399.1	5562.8	5657.2	5679.4
22.5°	6905.7	5751.5	4594.5	4464.1	4638.9	4885.9	5099.5	5279.8	5413.0	5463.0	5496.3
25°	6936.2	5549.0	4375.4	4342.1	4564.0	4786.0	4930.3	5032.9	5074.5	5069.0	5082.9
27.5°	6919.6	5315.9	4186.7	4245.0	4469.7	4630.6	4702.8	4694.4	4619.5	4550.2	4583.4
30°	6850.2	5038.5	4028.6	4145.1	4347.6	4436.4	4425.3	4317.1	4175.6	4045.2	4053.5
32.5°	6725.4	4738.8	3881.5	4031.3	4175.6	4214.4	4139.5	3998.0	3795.5	3626.3	3601.3
35°	6619.9	4453.0	3751.1	3900.9	4003.6	3984.2	3912.0	3728.9	3545.8	3396.0	3371.0
37.5°	6603.3	4208.9	3626.3	3753.9	3812.1	3784.4	3695.6	3540.2	3473.7	3359.9	3346.0
40°	6692.1	4036.9	3498.6	3598.5	3626.3	3604.1	3506.9	3418.2	3479.2	3451.5	3451.5
42.5°	6933.4	3945.3	3384.9	3443.1	3465.3	3482.0	3412.6	3337.7	3412.6	3285.0	3243.4
45°	7316.3	3948.1	3282.2	3290.5	3357.1	3415.4	3368.2	3257.2	3218.4	2963.1	2913.2
47.5°	7879.5	4042.4	3199.0	3146.3	3265.6	3362.7	3296.1	3135.2	2963.1	2793.9	2763.4
50°	8537.1	4211.7	3124.1	2996.4	3143.5	3296.1	3246.1	3057.5	2879.9	2777.3	2757.8
52.5°	9266.8	4425.3	3032.5	2830.0	2993.7	3265.6	3257.2	3046.4	2802.2	2732.9	2716.2
55°	10168.5	4636.2	2918.8	2635.8	2860.5	3240.6	3226.7	2954.8	2785.6	2735.6	2730.1
57.5°	11217.2	4941.4	2755.1	2438.8	2707.9	3137.9	3107.4	2899.3	2730.1	2694.0	2691.3
60°	12906.9	5415.8	2522.0	2258.4	2552.5	2957.6	2996.4	2805.0	2641.3	2633.0	2630.2
62.5°	15129.3	6081.7	2280.6	2072.5	2372.2	2724.5	2835.5	2677.4	2547.0	2588.6	2594.1
65°	18197.8	6642.1	2030.9	1914.4	2172.4	2499.8	2682.9	2558.1	2441.5	2522.0	2522.0
67.5°	20198.2	6653.2	1803.4	1750.7	1969.9	2311.1	2522.0	2416.6	2305.6	2441.5	2447.1
70°	19782.1	5829.2	1614.8	1578.7	1772.9	2108.6	2344.4	2261.2	2133.6	2255.7	2211.3
71°	19110.7	5371.4	1539.8	1512.1	1695.2	2011.5	2261.2	2191.8	2064.2	2144.7	2119.7
72.5°	18039.7	4663.9	1417.8	1423.3	1578.7	1889.4	2144.7	2072.5	1944.9	1989.3	1981.0
75°	15248.6	4072.9	1212.4	1237.4	1356.7	1681.3	1911.6	1856.1	1725.7	1725.7	1717.4
77.5°	9533.1	2846.6	1007.1	1021.0	1151.4	1440.0	1642.5	1595.3	1470.5	1428.9	1417.8
80°	3556.9	1470.5	788.0	804.6	885.1	1134.8	1359.5	1315.1	1187.5	1140.3	1095.9
82.5°	1345.6	738.0	579.9	566.0	652.0	865.6	1065.4	1012.7	912.8	799.1	765.8
85°	507.7	366.2	355.1	344.0	382.9	513.3	660.3	649.2	543.8	463.3	455.0
87.5°	133.2	119.3	138.7	102.7	108.2	97.1	99.9	41.6	19.4	8.3	5.5
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)