

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: P383715

Luminaire Tested: **GLEON-SA9D-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65006.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

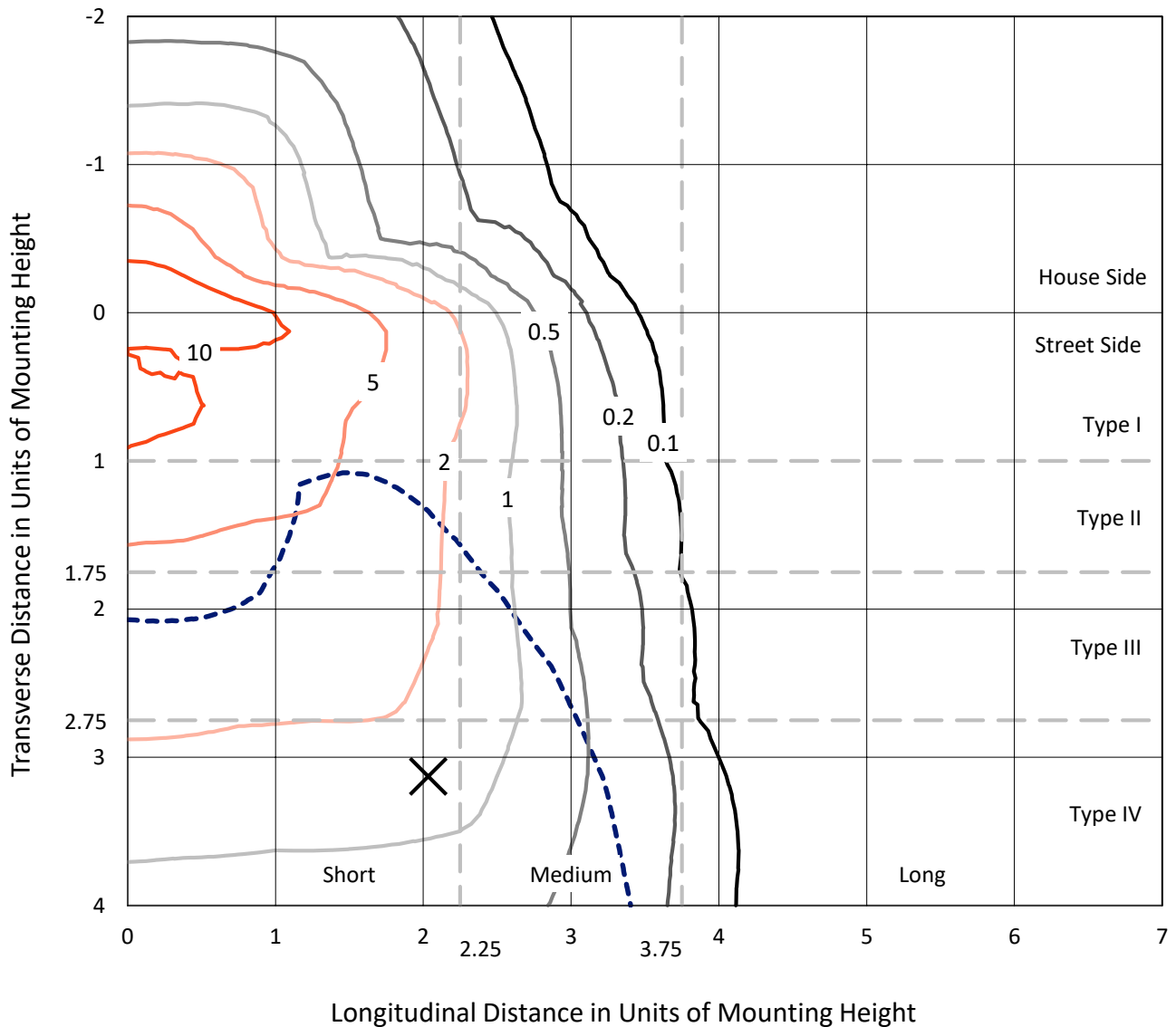
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

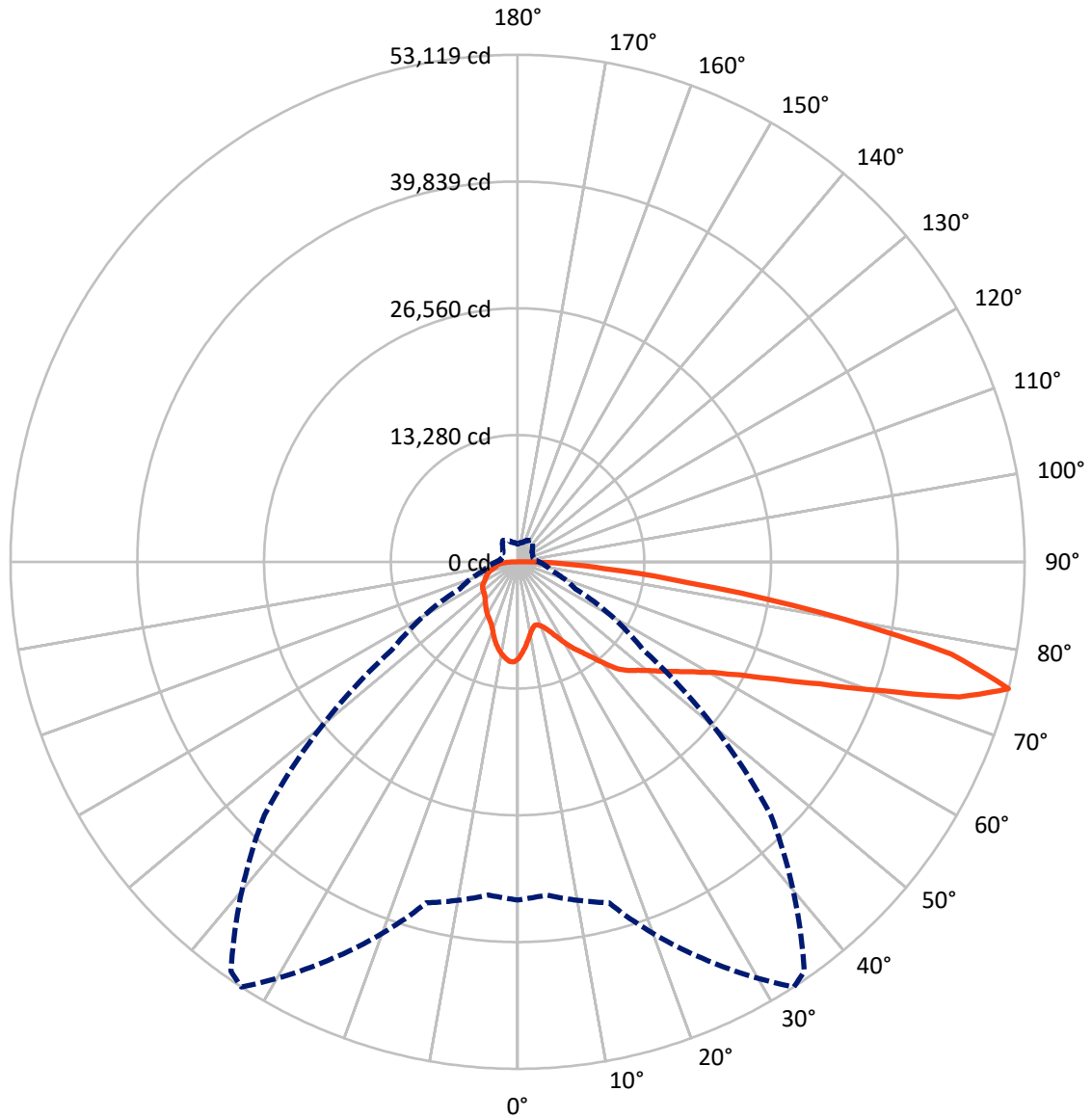
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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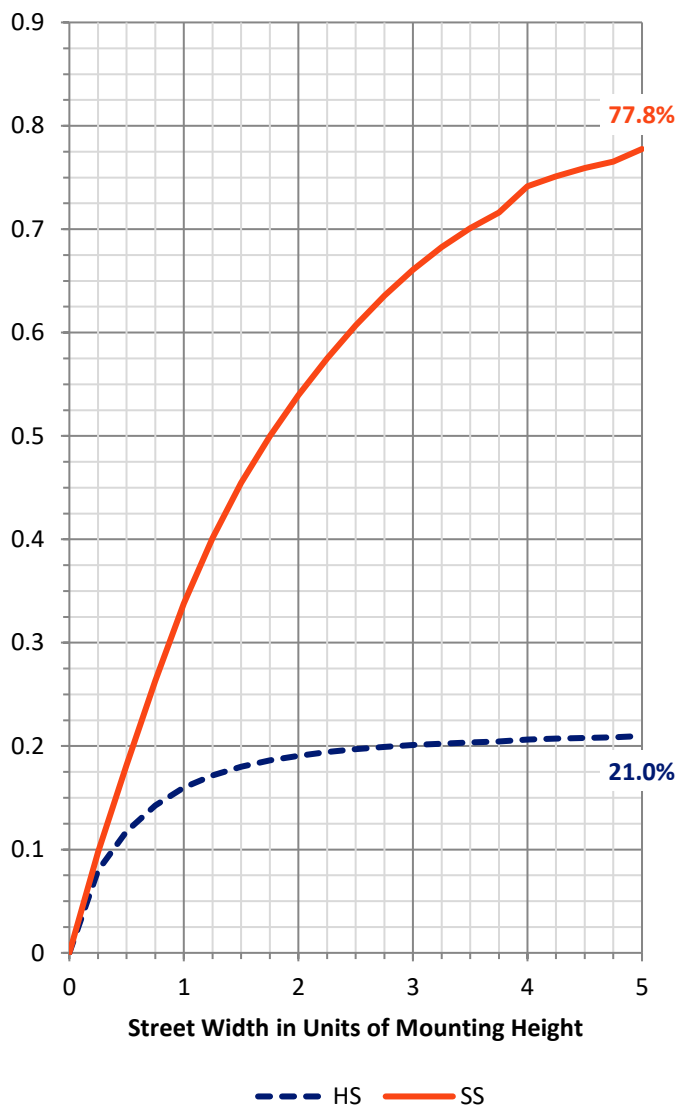
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13958.5	0.0	13958.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	51047.7	0.0	51047.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	65006.2	0.0	65006.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	918.9	1.4
10°-20°	2488.8	3.8
20°-30°	4064.6	6.3
30°-40°	6053.2	9.3
40°-50°	8681.9	13.4
50°-60°	11918.9	18.3
60°-70°	14921.9	23.0
70°-80°	13499.1	20.8
80°-90°	2458.9	3.8
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°	65006.2	100.0
0°-180°	65006.2	100.0

**Coefficient of Utilization**



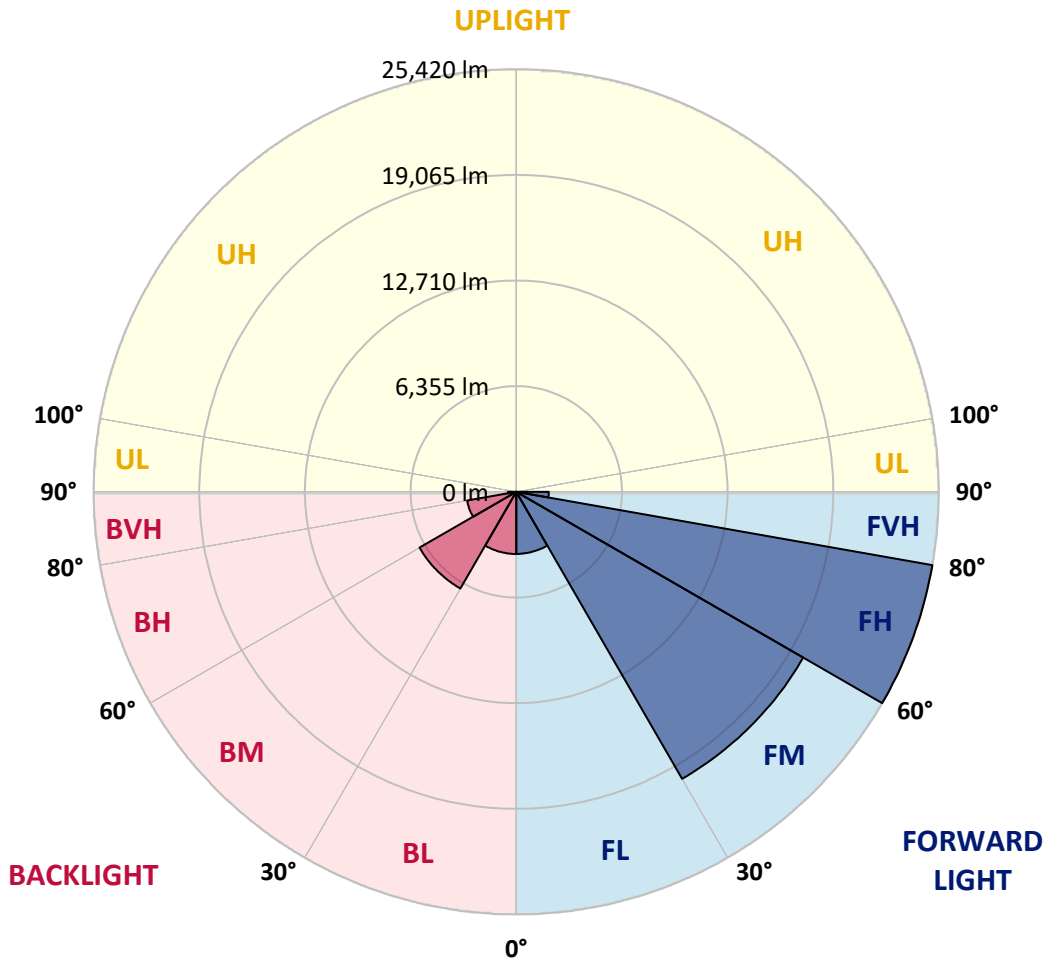
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3733.6	5.7			
FM (30°-60°)	19936.0	30.7			
FH (60°-80°)	25419.7	39.1			G5
FVH (80°-90°)	1958.3	3.0			G5
BL (0°-30°)	3738.7	5.8	B4/5000		
BM (30°-60°)	6717.8	10.3	B4/8500		
BH (60°-80°)	3001.3	4.6	B4/5000		G4/5000
BVH (80°-90°)	500.6	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9
2.5°	9435.6	9399.6	9466.9	9476.0	9534.3	9556.8	9637.6	9763.4	9866.7	9985.7	10093.5
5°	8580.0	8555.3	8649.6	8717.0	8845.0	8898.9	9089.8	9356.9	9594.9	9864.4	10109.2
7.5°	7767.2	7753.6	7859.2	8011.9	8160.1	8234.2	8564.3	8952.7	9350.2	9785.8	10160.9
10°	7082.3	7077.8	7178.8	7329.2	7547.1	7630.2	8056.8	8568.7	9125.6	9725.2	10248.4
12.5°	6698.3	6714.0	6761.2	6886.9	7089.0	7172.1	7645.9	8247.6	8937.1	9705.0	10376.4
15°	6792.6	6817.3	6736.5	6732.0	6875.7	6940.8	7385.4	8018.7	8802.3	9738.7	10562.8
17.5°	7194.5	7199.0	6985.7	6851.0	6938.5	6972.3	7304.5	7888.4	8723.8	9815.1	10796.3
20°	7760.4	7749.2	7371.9	7147.4	7194.5	7203.6	7419.1	7890.7	8717.0	9947.5	11099.5
22.5°	8510.4	8427.3	7919.8	7614.5	7603.2	7589.8	7713.2	8056.8	8815.8	10163.1	11460.9
25°	9489.4	9410.9	8712.5	8294.9	8205.0	8171.3	8189.3	8411.6	9011.1	10394.4	11865.1
27.5°	10578.5	10441.5	9767.8	9177.3	8990.9	8943.8	8836.0	8912.3	9224.5	10616.7	12345.7
30°	11490.2	11416.0	10827.8	10127.1	9907.1	9839.8	9556.8	9473.7	9532.1	10919.8	12952.0
32.5°	11999.9	11950.5	11593.5	11027.6	10823.3	10728.9	10329.3	10163.1	10026.1	11398.1	13773.9
35°	12617.4	12586.0	12370.4	11959.5	11656.4	11557.5	11247.7	11074.7	10722.2	12056.0	14835.9
37.5°	13403.3	13369.7	13374.1	13041.8	12680.2	12588.2	12383.9	12202.0	11624.9	12920.6	15990.1
40°	14292.5	14227.4	14202.7	14187.0	13957.9	13906.3	13798.5	13551.5	12756.6	13953.5	17128.6
42.5°	15630.8	15399.6	14905.5	15091.9	15318.7	15291.7	15379.4	15024.6	14014.1	15175.0	18240.1
45°	16922.0	16542.5	15689.2	15729.6	16225.9	16376.3	17032.0	16780.5	15377.1	16513.4	19389.8
47.5°	17510.3	17222.9	16497.6	16499.9	16991.6	17303.7	18740.9	18561.2	16809.7	18033.6	20793.3
50°	18168.3	17880.8	17229.6	17474.3	17903.2	18235.6	20391.3	20299.2	18172.7	19697.4	22475.1
52.5°	18886.8	18399.6	17986.3	18424.2	19026.0	19412.2	22044.0	21792.4	19423.5	21372.6	24408.4
55°	18895.8	18763.3	19077.6	19398.7	20299.2	20773.0	23775.2	23110.6	20442.9	23018.4	25982.5
57.5°	19971.4	19755.8	20422.7	20570.9	21747.5	22282.0	25497.5	24258.0	21480.4	24280.4	26831.4
60°	21395.0	21210.9	21756.6	22147.3	23539.5	24253.5	27336.5	25436.8	22295.5	25232.6	26790.9
62.5°	23853.9	23645.0	23638.2	24186.1	26061.2	26891.9	29400.2	26593.4	22618.8	25421.2	25647.9
65°	27453.4	27121.0	26494.5	26755.0	29543.8	30372.5	31706.2	27430.9	22192.2	24410.7	22704.1
67.5°	30956.3	30945.1	30174.9	30709.3	34142.6	34807.3	34333.5	27514.0	20860.6	20892.0	17481.1
70°	34448.1	34493.0	34362.7	36221.9	40355.9	41047.5	37131.4	26397.9	17867.4	15087.4	10472.9
72.5°	37214.5	37203.2	37858.9	42653.0	48419.4	48264.5	39489.1	23016.2	12828.4	8144.4	5005.2
75°	35422.6	35031.9	36985.4	45837.2	53119.3	52362.6	37483.9	16055.2	6657.9	3707.3	2694.6
77.5°	23103.8	23474.3	26341.8	37865.6	46463.6	45543.0	27500.5	7490.9	3137.0	2431.9	1953.5
80°	8366.7	8757.4	12334.4	21448.9	32011.7	31861.3	13542.6	3078.6	2122.0	1836.8	1423.7
82.5°	2878.8	3022.4	4865.9	9525.4	18073.9	18747.6	5095.0	1749.3	1542.6	1302.4	974.6
85°	1129.5	1293.4	2225.3	4583.0	9116.7	9184.0	2063.6	1046.4	1073.3	853.3	534.4
87.5°	428.9	520.9	1064.4	2128.7	4163.2	3824.1	738.8	498.5	610.8	507.5	253.8
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°	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9	10160.9
2.5°	10176.5	10223.7	10322.5	10389.8	10461.7	10482.0	10490.9	10508.9	10526.9	10520.2	10522.4
5°	10239.4	10331.5	10490.9	10558.3	10589.7	10553.8	10484.2	10428.0	10387.6	10365.1	10358.4
7.5°	10342.7	10472.9	10643.6	10632.4	10560.5	10401.1	10221.5	10086.7	9974.5	9934.0	9911.6
10°	10479.7	10632.4	10751.4	10623.4	10414.6	10138.4	9868.9	9660.1	9491.6	9426.5	9415.3
12.5°	10654.9	10809.8	10832.2	10560.5	10214.7	9837.5	9471.5	9195.3	8943.8	8862.9	8845.0
15°	10881.6	11027.6	10888.4	10450.5	9967.7	9460.2	8986.5	8611.4	8346.5	8247.6	8211.8
17.5°	11119.7	11258.9	10899.6	10268.6	9644.4	9013.4	8418.3	8034.3	7731.2	7616.7	7603.2
20°	11404.8	11467.7	10852.4	10008.2	9199.8	8434.0	7807.6	7446.0	7284.3	7203.6	7194.5
22.5°	11757.3	11690.0	10744.7	9655.6	8636.2	7764.9	7255.2	7086.7	7046.3	7028.3	7035.1
25°	12130.1	11923.5	10585.3	9195.3	7924.3	7095.8	6851.0	6898.1	6952.0	6945.3	6945.3
27.5°	12541.1	12161.5	10340.5	8584.5	7136.1	6547.8	6577.0	6749.9	6830.8	6828.5	6826.3
30°	13068.8	12431.0	10028.4	7850.2	6399.6	6161.6	6339.0	6550.1	6660.1	6655.6	6657.9
32.5°	13717.7	12727.5	9604.0	7030.6	5867.4	5876.5	6080.8	6289.6	6417.6	6406.3	6408.6
35°	14476.6	13059.7	9029.1	6222.3	5514.9	5649.6	5811.4	5957.2	6078.5	6062.8	6047.1
37.5°	15303.0	13385.3	8265.6	5499.2	5227.5	5438.6	5573.3	5598.0	5654.1	5613.7	5584.5
40°	16088.9	13634.6	7282.1	4906.4	4937.9	5259.0	5346.5	5247.7	5146.6	5133.2	5092.8
42.5°	16773.8	13717.7	6287.4	4432.6	4632.4	5070.3	5124.2	4917.6	4735.7	4650.4	4614.5
45°	17496.8	13746.8	5359.9	4035.2	4338.3	4901.9	4960.3	4684.1	4428.1	4243.9	4183.3
47.5°	18442.2	13957.9	4639.2	3741.0	4113.7	4789.6	4872.7	4497.7	4165.4	3902.6	3846.5
50°	19679.4	14375.6	4053.1	3516.4	3967.7	4715.5	4809.9	4315.9	3949.9	3633.2	3577.0
52.5°	21053.7	14759.6	3579.3	3334.6	3826.3	4585.3	4729.0	4185.6	3747.7	3383.9	3323.3
55°	22014.8	14465.4	3197.5	3145.9	3642.2	4399.0	4616.7	4075.5	3458.1	3141.5	3087.5
57.5°	22198.9	13459.5	2907.9	2950.6	3419.9	4165.4	4443.9	3830.8	3300.8	3035.9	2979.7
60°	21695.9	12058.2	2692.4	2770.9	3181.9	3871.2	4120.5	3657.9	3150.4	2923.7	2876.4
62.5°	20431.7	10623.4	2532.9	2609.3	2959.5	3572.6	3918.4	3476.0	2997.7	2795.7	2748.4
65°	17878.5	8919.1	2380.2	2465.5	2753.0	3314.4	3736.5	3307.6	2847.3	2692.4	2647.5
67.5°	13495.4	6680.3	2236.5	2312.8	2568.8	3089.8	3538.9	3141.5	2701.3	2602.6	2548.6
70°	7946.8	4183.3	2072.6	2153.5	2375.7	2856.2	3327.8	2959.5	2519.5	2474.6	2404.9
72.5°	3698.3	2517.2	1886.2	1964.8	2133.2	2544.1	3056.1	2721.5	2303.9	2205.1	2110.8
75°	2207.3	1841.3	1666.2	1735.8	1854.8	2211.8	2714.8	2479.0	2099.5	1969.3	1870.5
77.5°	1650.4	1407.9	1423.7	1497.7	1594.3	1935.6	2404.9	2288.2	1942.4	1841.3	1773.9
80°	1187.9	1068.9	1160.9	1241.8	1342.8	1760.4	2303.9	2115.3	1756.0	1621.3	1558.4
82.5°	792.7	768.0	873.5	956.6	1055.4	1540.4	2164.6	1852.6	1500.0	1329.3	1190.1
85°	437.8	462.6	588.3	624.2	709.6	1084.6	1773.9	1488.8	1129.5	909.4	869.0
87.5°	181.8	213.3	316.6	305.4	377.3	646.7	1167.7	898.2	718.6	536.7	417.7
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)