

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: P383435

Luminaire Tested: **GLEON-SA7B-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383435  
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-SA7B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA 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: 37879.5 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

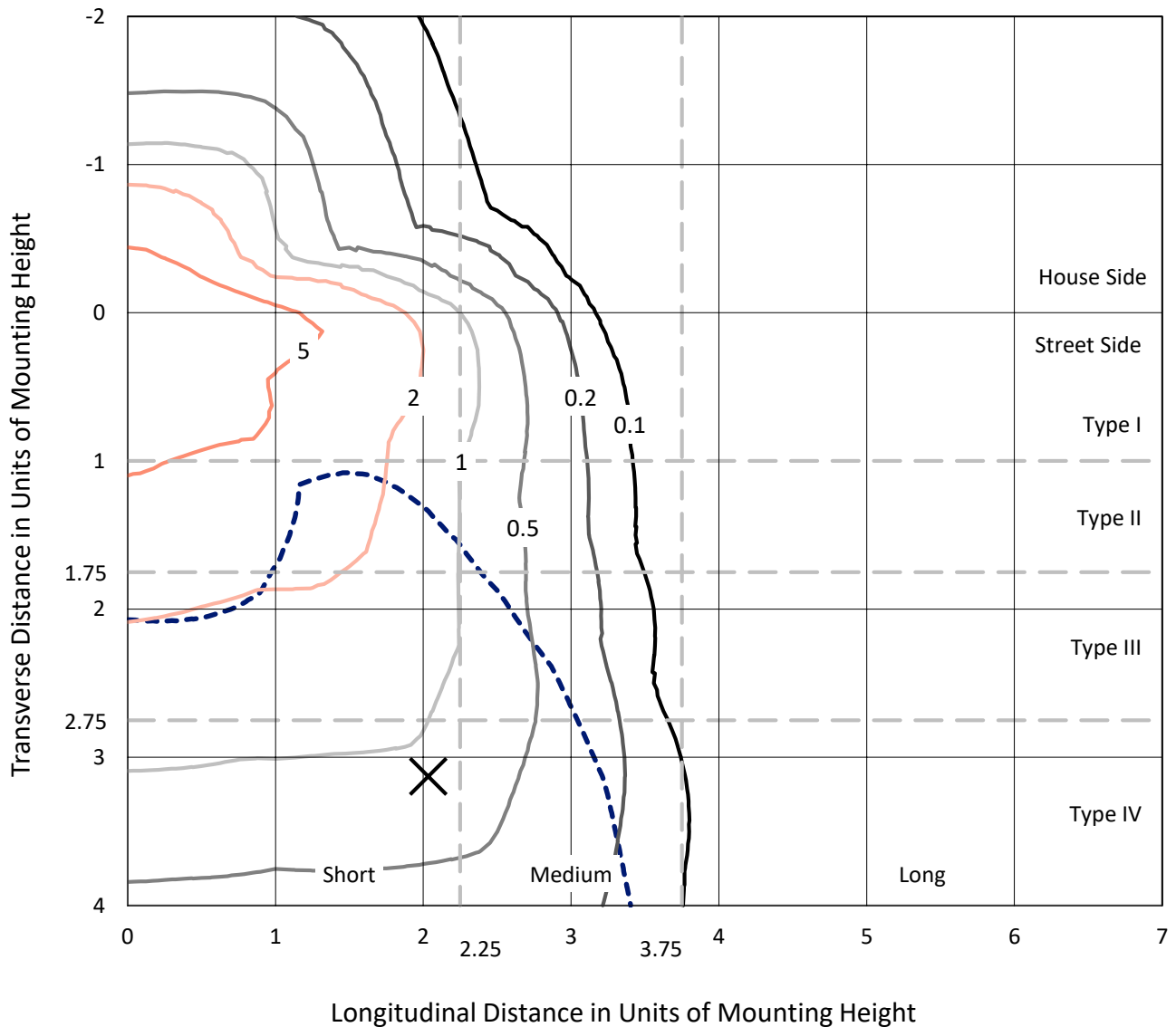
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

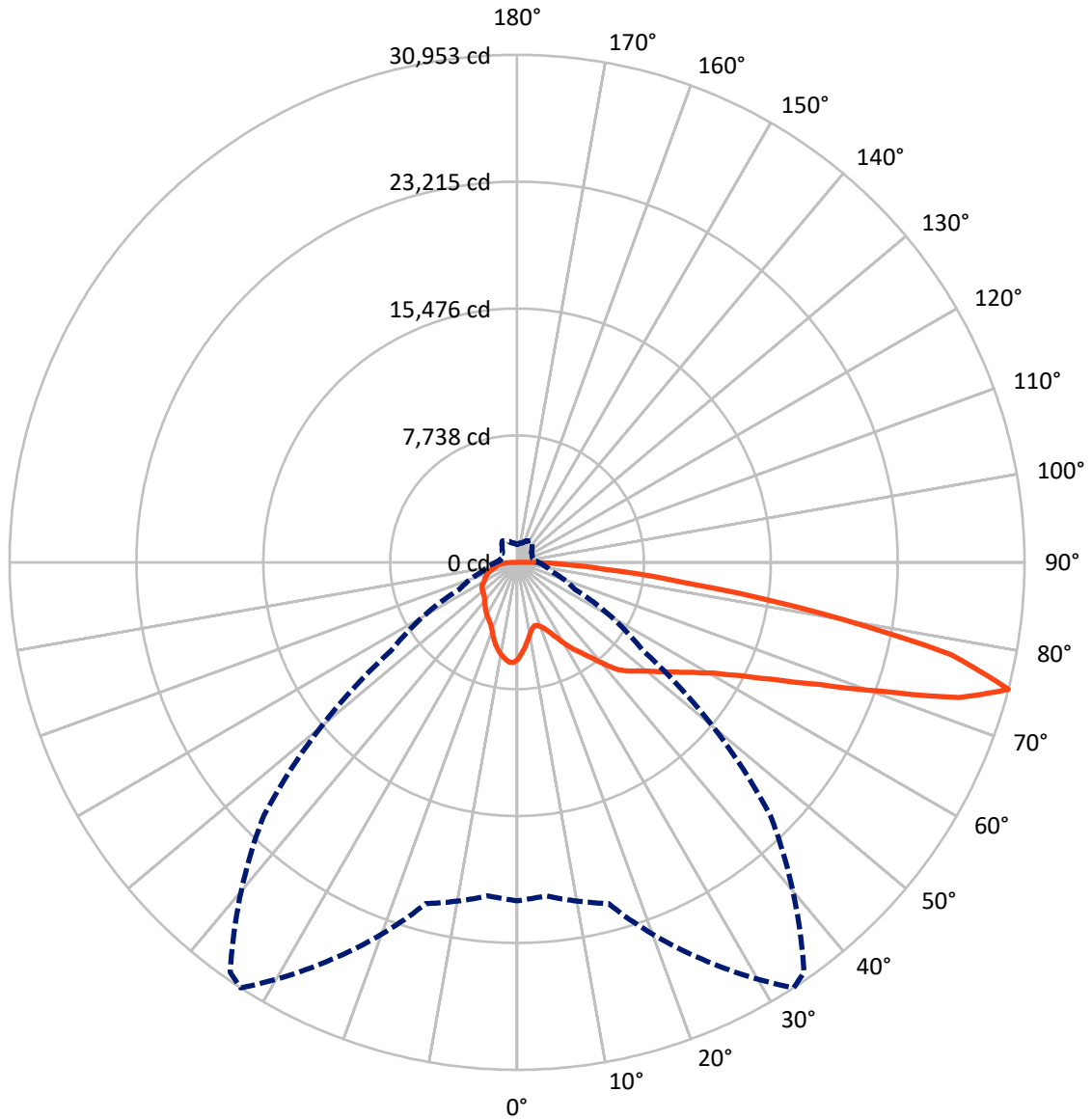
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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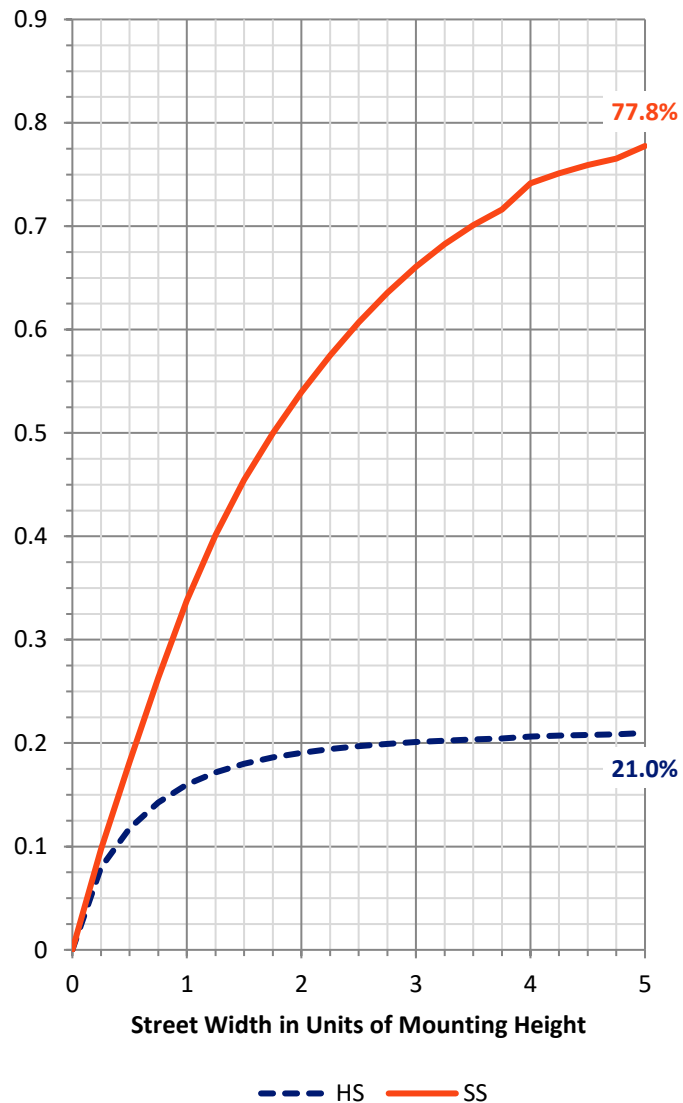
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8133.7	0.0	8133.7
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	29745.8	0.0	29745.8
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	37879.5	0.0	37879.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.5	1.4
10°-20°	1450.2	3.8
20°-30°	2368.5	6.3
30°-40°	3527.2	9.3
40°-50°	5059.0	13.4
50°-60°	6945.2	18.3
60°-70°	8695.1	23.0
70°-80°	7866.0	20.8
80°-90°	1432.8	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°	37879.5	100.0
0°-180°	37879.5	100.0

**Coefficient of Utilization**

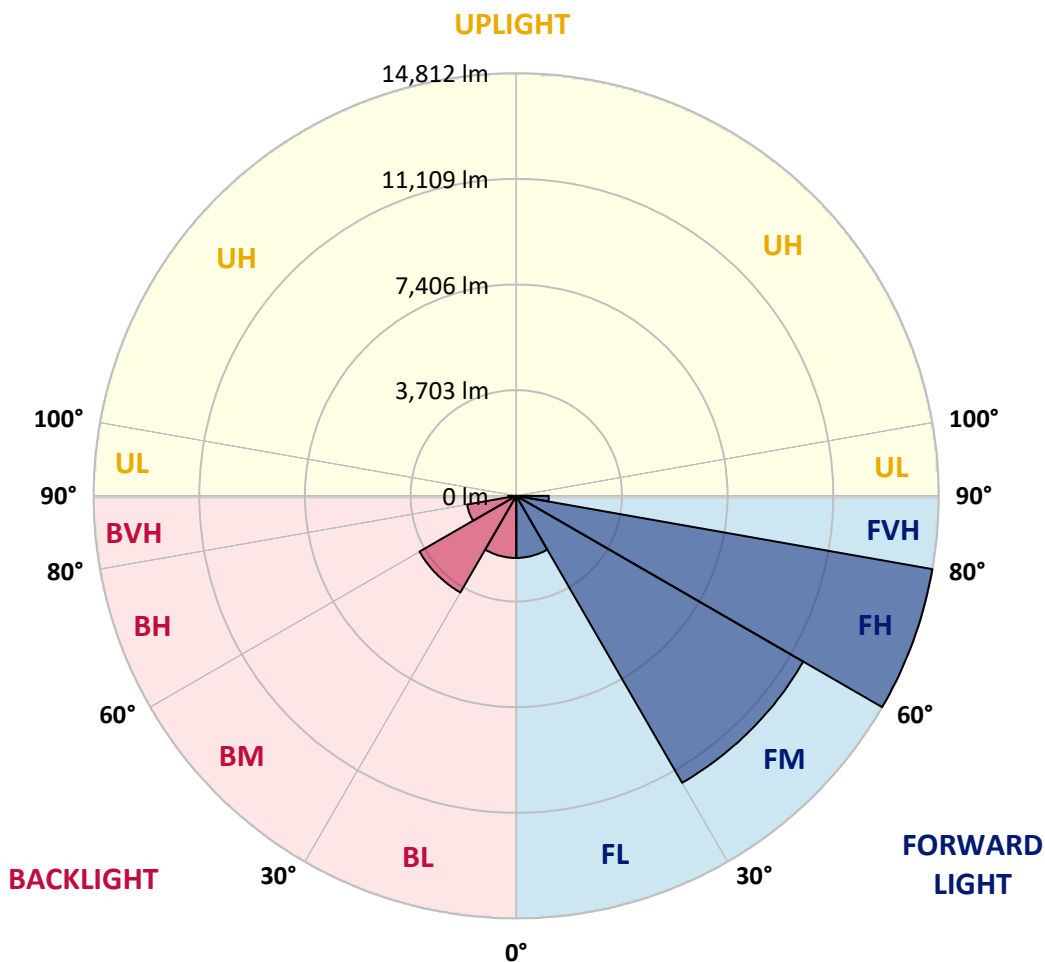


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.6	5.7			
FM (30°-60°)	11616.9	30.7			
FH (60°-80°)	14812.2	39.1			G5
FVH (80°-90°)	1141.1	3.0			G5
BL (0°-30°)	2178.6	5.8	B3/2500		
BM (30°-60°)	3914.5	10.3	B3/5000		
BH (60°-80°)	1748.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	291.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8
2.5°	5498.2	5477.2	5516.4	5521.7	5555.7	5568.8	5615.9	5689.1	5749.4	5818.7	5881.5
5°	4999.6	4985.3	5040.2	5079.4	5154.1	5185.5	5296.7	5452.3	5591.1	5748.0	5890.6
7.5°	4525.9	4518.1	4579.6	4668.5	4754.9	4798.1	4990.5	5216.9	5448.4	5702.3	5920.8
10°	4126.8	4124.2	4183.1	4270.8	4397.7	4446.2	4694.7	4993.1	5317.6	5667.0	5971.8
12.5°	3903.1	3912.3	3939.8	4013.0	4130.9	4179.2	4455.3	4805.9	5207.6	5655.1	6046.4
15°	3958.1	3972.5	3925.4	3922.7	4006.5	4044.4	4303.6	4672.5	5129.2	5674.8	6155.0
17.5°	4192.3	4194.9	4070.6	3992.1	4043.1	4062.8	4256.4	4596.6	5083.4	5719.2	6291.1
20°	4522.0	4515.5	4295.6	4164.9	4192.3	4197.6	4323.1	4597.9	5079.4	5796.5	6467.7
22.5°	4959.1	4910.7	4615.0	4437.0	4430.4	4422.6	4494.5	4694.7	5137.0	5922.1	6678.4
25°	5529.6	5483.7	5076.8	4833.4	4781.1	4761.5	4771.9	4901.5	5250.9	6056.8	6913.9
27.5°	6164.1	6084.3	5691.8	5347.6	5239.1	5211.6	5148.8	5193.3	5375.1	6186.4	7193.9
30°	6695.4	6652.2	6309.4	5901.2	5772.9	5733.7	5568.8	5520.4	5554.4	6363.0	7547.2
32.5°	6992.4	6963.6	6755.6	6425.8	6306.8	6251.8	6018.9	5922.1	5842.3	6641.7	8026.1
35°	7352.2	7333.9	7208.3	6968.8	6792.2	6734.6	6554.1	6453.3	6247.9	7025.1	8645.0
37.5°	7810.2	7790.5	7793.2	7599.6	7388.8	7335.2	7216.1	7110.1	6773.9	7528.9	9317.5
40°	8328.3	8290.4	8276.1	8266.8	8133.3	8103.3	8040.5	7896.5	7433.4	8130.7	9981.0
42.5°	9108.2	8973.4	8685.6	8794.2	8926.3	8910.6	8961.7	8754.9	8166.1	8842.5	10628.6
45°	9860.5	9639.5	9142.2	9165.8	9454.9	9542.6	9924.7	9778.1	8960.4	9622.4	11298.6
47.5°	10203.3	10035.8	9613.3	9614.6	9901.1	10083.0	10920.4	10815.7	9795.1	10508.2	12116.4
50°	10586.8	10419.3	10039.8	10182.5	10432.3	10626.0	11882.2	11828.5	10589.4	11477.8	13096.3
52.5°	11005.5	10721.6	10480.7	10735.9	11086.6	11311.6	12845.1	12698.6	11318.2	12454.0	14223.0
55°	11010.7	10933.5	11116.7	11303.8	11828.5	12104.5	13854.0	13466.6	11912.3	13413.0	15140.2
57.5°	11637.5	11511.8	11900.4	11986.8	12672.4	12983.8	14857.5	14135.3	12516.7	14148.3	15634.8
60°	12467.0	12359.7	12677.7	12905.4	13716.6	14132.7	15929.2	14822.2	12991.7	14703.2	15611.2
62.5°	13899.8	13778.1	13774.1	14093.4	15186.0	15670.1	17131.6	15496.1	13180.1	14813.1	14945.2
65°	15997.2	15803.6	15438.5	15590.3	17215.4	17698.2	18475.5	15984.1	12931.5	14224.3	13229.8
67.5°	18038.4	18031.9	17583.1	17894.5	19895.2	20282.4	20006.4	16032.6	12155.6	12173.9	10186.4
70°	20073.1	20099.3	20023.3	21106.7	23515.6	23918.6	21636.7	15382.3	10411.4	8791.6	6102.7
72.5°	21685.1	21678.6	22060.6	24854.2	28214.3	28124.1	23010.6	13411.7	7475.2	4745.8	2916.6
75°	20641.0	20413.3	21551.6	26709.6	30952.9	30512.0	21842.1	9355.5	3879.6	2160.3	1570.1
77.5°	13462.7	13678.7	15349.6	22064.5	27074.7	26538.2	16024.7	4365.0	1827.9	1417.1	1138.4
80°	4875.3	5103.0	7187.4	12498.4	18653.4	18565.7	7891.3	1793.9	1236.5	1070.3	829.5
82.5°	1677.4	1761.2	2835.4	5550.5	10531.8	10924.4	2968.9	1019.3	898.9	758.9	567.9
85°	658.1	753.7	1296.7	2670.6	5312.3	5351.6	1202.4	609.7	625.4	497.3	311.4
87.5°	249.9	303.6	620.2	1240.4	2425.8	2228.3	430.5	290.5	355.9	295.7	147.8
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°	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8	5920.8
2.5°	5930.0	5957.4	6015.0	6054.2	6096.1	6107.9	6113.1	6123.6	6134.1	6130.1	6131.4
5°	5966.6	6020.2	6113.1	6152.4	6170.7	6149.8	6109.2	6076.5	6052.9	6039.9	6036.0
7.5°	6026.7	6102.7	6202.1	6195.5	6153.7	6060.7	5956.1	5877.6	5812.2	5788.6	5775.5
10°	6106.6	6195.5	6264.9	6190.3	6068.7	5907.7	5750.7	5629.0	5530.9	5492.9	5486.3
12.5°	6208.7	6298.9	6312.0	6153.7	5952.2	5732.4	5519.0	5358.2	5211.6	5164.5	5154.1
15°	6340.8	6425.8	6344.7	6089.5	5808.3	5512.5	5236.4	5018.0	4863.5	4805.9	4785.1
17.5°	6479.5	6560.6	6351.3	5983.6	5619.8	5252.2	4905.4	4681.7	4505.1	4438.3	4430.4
20°	6645.7	6682.3	6323.8	5831.8	5360.8	4914.6	4549.5	4338.9	4244.7	4197.6	4192.3
22.5°	6851.1	6811.8	6261.0	5626.4	5032.3	4524.6	4227.6	4129.5	4106.0	4095.5	4099.4
25°	7068.3	6947.9	6168.1	5358.2	4617.6	4134.8	3992.1	4019.6	4051.0	4047.1	4047.1
27.5°	7307.7	7086.7	6025.4	5002.2	4158.2	3815.4	3832.5	3933.3	3980.3	3979.0	3977.7
30°	7615.2	7243.6	5843.6	4574.4	3729.1	3590.4	3693.8	3816.7	3880.9	3878.3	3879.6
32.5°	7993.4	7416.3	5596.3	4096.8	3419.0	3424.3	3543.3	3665.0	3739.6	3733.0	3734.4
35°	8435.6	7610.0	5261.3	3625.8	3213.6	3292.1	3386.3	3471.3	3542.0	3532.8	3523.7
37.5°	8917.1	7799.8	4816.5	3204.4	3046.1	3169.1	3247.6	3262.0	3294.7	3271.1	3254.2
40°	9375.1	7945.0	4243.3	2859.0	2877.3	3064.4	3115.5	3057.9	2999.0	2991.1	2967.6
42.5°	9774.2	7993.4	3663.7	2582.9	2699.3	2954.5	2985.9	2865.5	2759.5	2709.8	2688.9
45°	10195.5	8010.4	3123.3	2351.3	2527.9	2856.4	2890.4	2729.4	2580.3	2473.0	2437.7
47.5°	10746.4	8133.3	2703.3	2179.9	2397.1	2790.9	2839.4	2620.8	2427.1	2274.1	2241.4
50°	11467.4	8376.8	2361.8	2049.0	2312.0	2747.8	2802.7	2514.9	2301.6	2117.1	2084.3
52.5°	12268.1	8600.5	2085.6	1943.0	2229.7	2671.9	2755.6	2439.0	2183.8	1971.8	1936.5
55°	12828.2	8429.1	1863.3	1833.2	2122.3	2563.2	2690.2	2374.9	2015.0	1830.5	1799.1
57.5°	12935.5	7842.9	1694.5	1719.4	1992.8	2427.1	2589.4	2232.3	1923.5	1769.0	1736.3
60°	12642.3	7026.4	1568.8	1614.7	1854.1	2255.7	2401.1	2131.5	1835.8	1703.6	1676.1
62.5°	11905.6	6190.3	1475.9	1520.5	1724.6	2081.7	2283.2	2025.5	1746.8	1629.0	1601.5
65°	10418.0	5197.2	1387.0	1436.7	1604.2	1931.3	2177.3	1927.4	1659.1	1568.8	1542.6
67.5°	7863.8	3892.7	1303.2	1347.7	1496.9	1800.4	2062.2	1830.5	1574.0	1516.5	1485.1
70°	4630.6	2437.7	1207.8	1254.8	1384.4	1664.4	1939.1	1724.6	1468.1	1441.9	1401.3
72.5°	2155.0	1466.8	1099.1	1144.9	1243.1	1482.5	1780.8	1585.9	1342.5	1284.9	1229.9
75°	1286.2	1073.0	970.9	1011.5	1080.8	1288.8	1582.0	1444.6	1223.4	1147.5	1089.9
77.5°	961.7	820.4	829.5	872.8	929.0	1127.9	1401.3	1333.3	1131.8	1073.0	1033.6
80°	692.1	622.8	676.5	723.5	782.5	1025.8	1342.5	1232.5	1023.2	944.7	908.1
82.5°	461.9	447.5	509.0	557.4	615.0	897.6	1261.3	1079.5	874.1	774.6	693.4
85°	255.2	269.5	342.8	363.8	413.5	632.0	1033.6	867.6	658.1	530.0	506.4
87.5°	106.0	124.3	184.4	177.9	219.8	376.8	680.4	523.3	418.7	312.7	243.4
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)