

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: P319811

Luminaire Tested: **GLEON-SA7C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36780 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

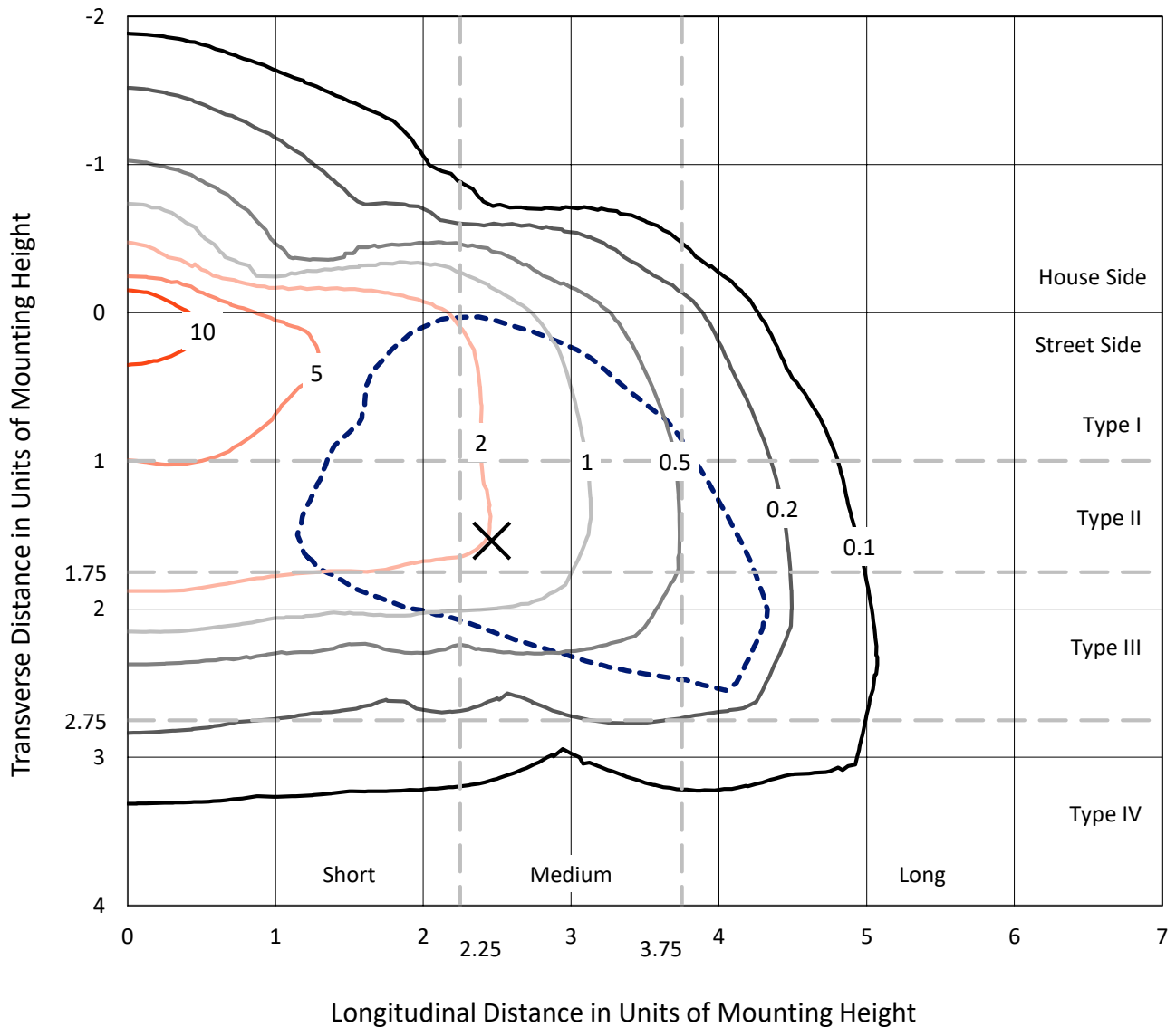
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

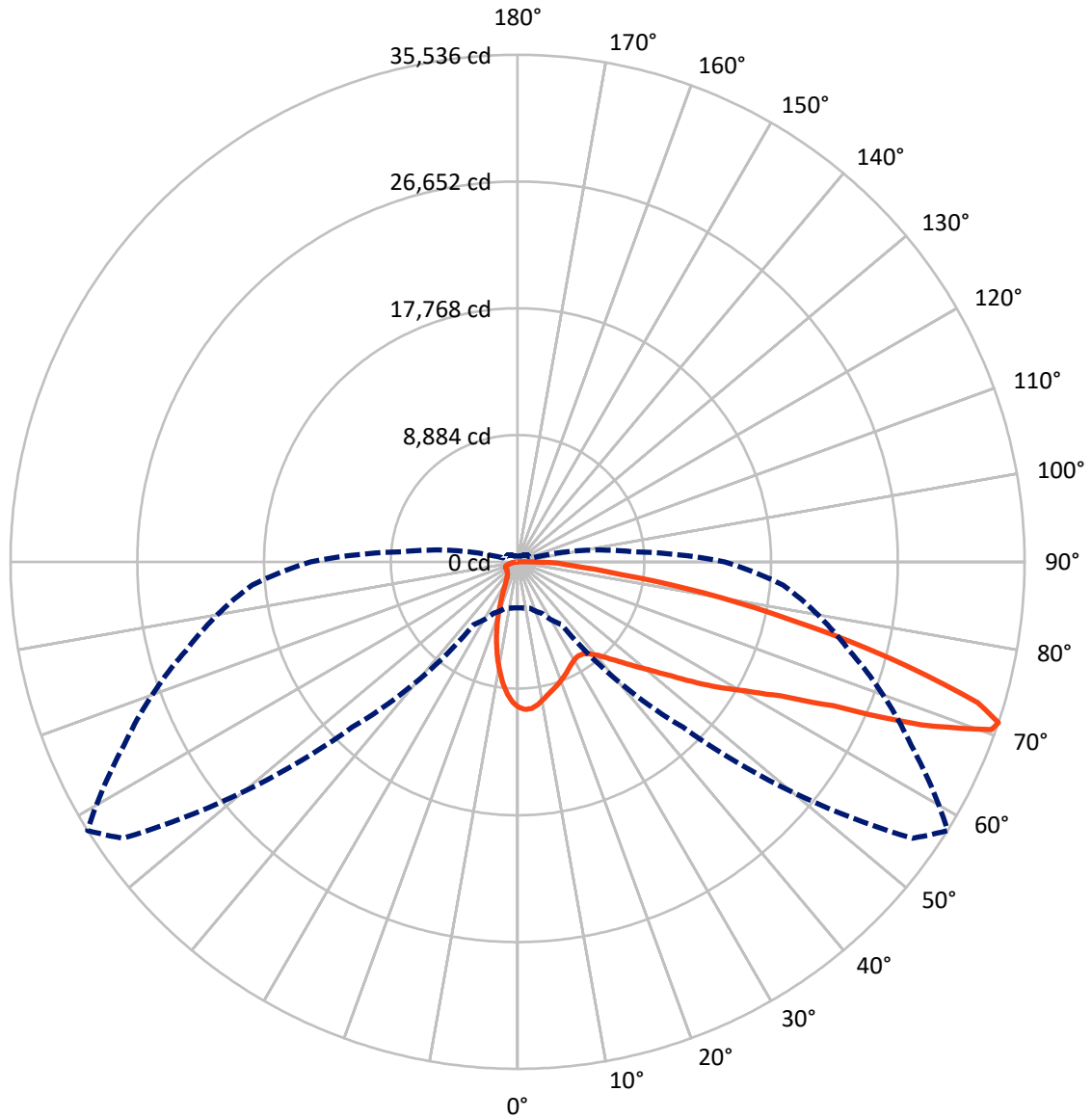
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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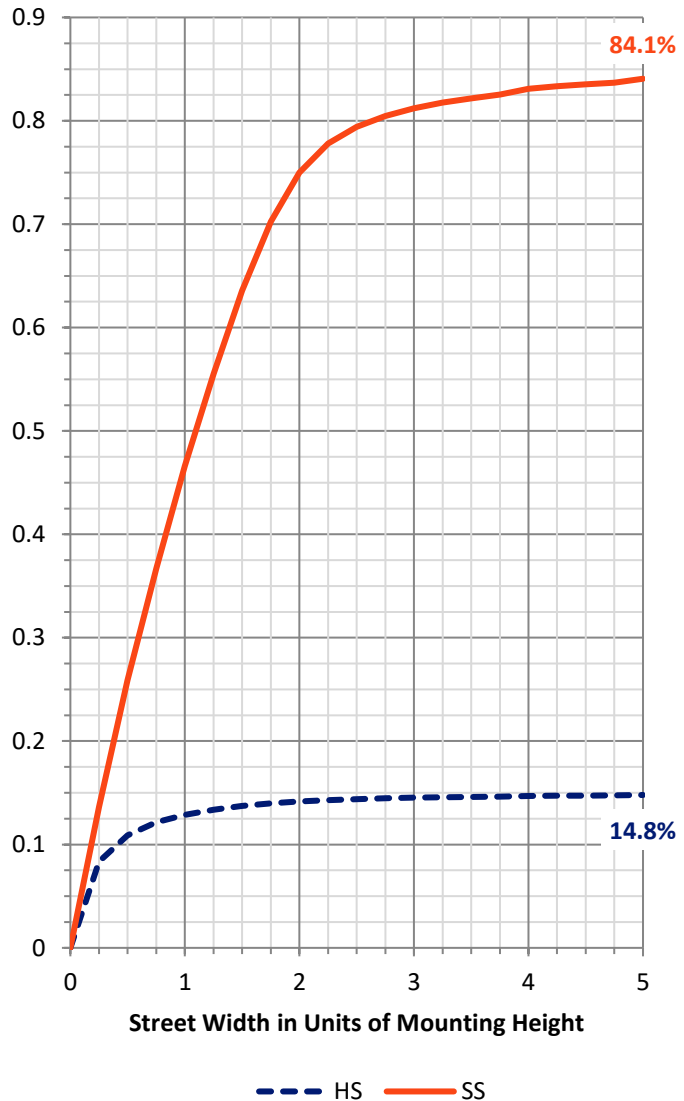
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5498.9	0.0	5498.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31281.1	0.0	31281.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	36780.0	0.0	36780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.1	2.4
10°-20°	1954.9	5.3
20°-30°	2484.4	6.8
30°-40°	3164.7	8.6
40°-50°	4487.7	12.2
50°-60°	6944.8	18.9
60°-70°	9454.5	25.7
70°-80°	6307.2	17.1
80°-90°	1102.7	3.0
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°	36780.0	100.0
0°-180°	36780.0	100.0

Coefficient of Utilization

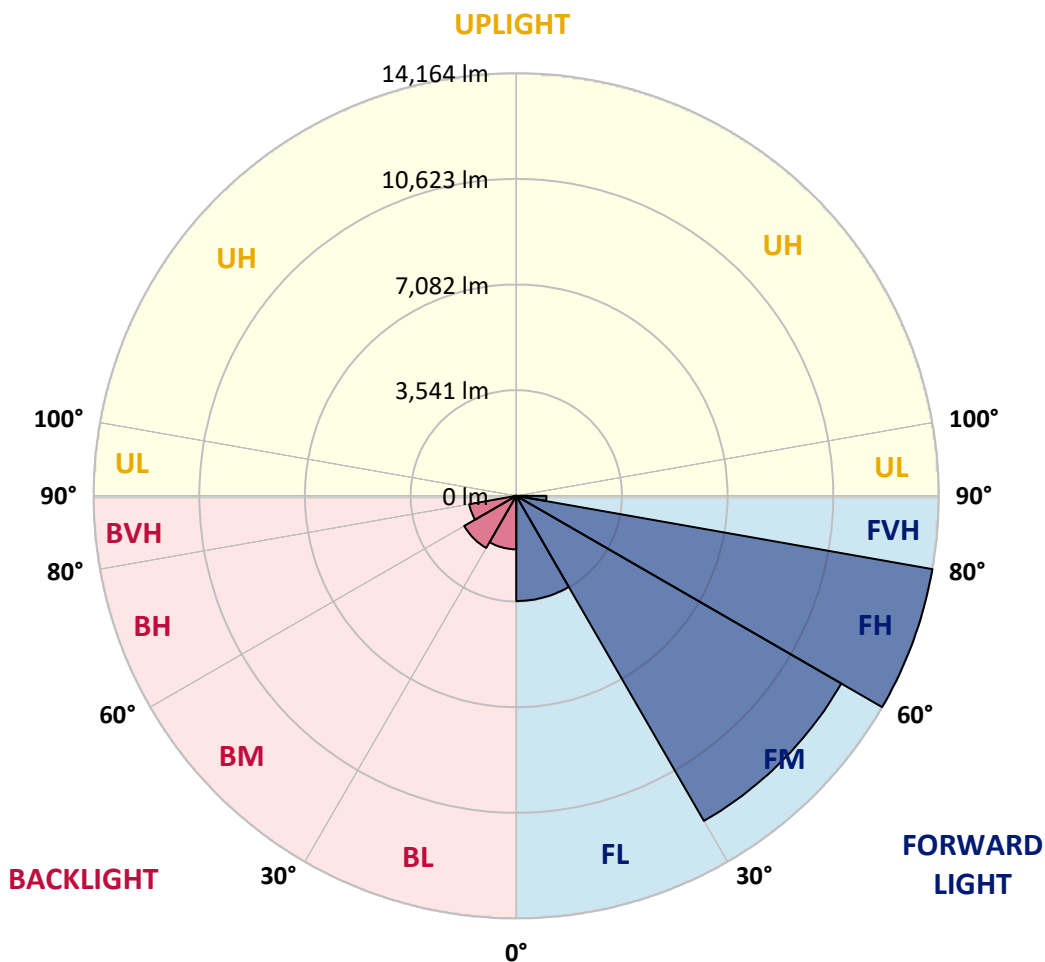


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3526.0	9.6			
FM (30°-60°)	12580.5	34.2			
FH (60°-80°)	14163.5	38.5			G5
FVH (80°-90°)	1011.1	2.7			G5
BL (0°-30°)	1792.5	4.9	B3/2500		
BM (30°-60°)	2016.6	5.5	B2/2500		
BH (60°-80°)	1598.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	91.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5
2.5°	10460.8	10446.8	10451.9	10441.6	10417.3	10392.9	10357.1	10363.5	10313.5	10239.2	10147.0
5°	10263.5	10258.4	10296.9	10318.6	10336.6	10322.5	10312.2	10325.0	10252.0	10149.5	9989.4
7.5°	9849.7	9793.4	9842.0	9915.1	9984.2	10036.8	10106.0	10114.9	10068.8	9961.2	9751.1
10°	9261.7	9207.9	9279.6	9393.6	9532.0	9657.5	9797.2	9822.8	9831.8	9734.4	9479.5
12.5°	8651.8	8610.8	8682.6	8842.7	9072.0	9265.5	9488.4	9526.9	9606.3	9541.0	9228.4
15°	8106.0	8090.7	8177.8	8335.4	8599.3	8895.2	9216.8	9287.3	9421.8	9400.0	9032.3
17.5°	7634.6	7630.7	7697.3	7862.6	8154.7	8528.8	8946.5	9065.6	9265.5	9291.1	8870.9
20°	7283.5	7275.8	7322.0	7443.7	7744.7	8168.8	8654.4	8818.4	9106.6	9196.3	8704.3
22.5°	7095.2	7093.9	7095.2	7152.8	7398.8	7793.4	8370.0	8569.8	8951.6	9120.7	8519.9
25°	7063.2	7059.3	7031.1	7024.7	7164.4	7479.5	8088.1	8308.5	8804.3	9068.2	8344.3
27.5°	7146.4	7151.6	7114.4	7054.2	7082.4	7273.3	7843.4	8079.1	8686.4	9058.0	8222.6
30°	7319.4	7316.8	7284.8	7222.0	7166.9	7196.4	7669.2	7904.9	8607.0	9102.8	8139.3
32.5°	7510.3	7524.4	7518.0	7483.4	7401.4	7283.5	7616.6	7847.2	8583.9	9210.4	8103.5
35°	7739.6	7755.0	7801.1	7828.0	7731.9	7542.3	7729.4	7929.2	8650.5	9412.8	8161.1
37.5°	7957.4	7997.1	8126.5	8240.6	8158.6	7947.2	8029.2	8171.4	8856.8	9731.9	8316.2
40°	8208.5	8243.1	8454.5	8696.7	8683.8	8464.8	8512.2	8607.0	9220.7	10189.2	8596.7
42.5°	8455.8	8525.0	8831.2	9174.5	9273.2	9079.7	9155.3	9205.3	9733.1	10795.2	9086.1
45°	8785.1	8859.4	9284.7	9698.5	9929.2	9820.3	9940.7	9959.9	10377.6	11620.3	9797.2
47.5°	9283.4	9368.0	9863.8	10298.1	10650.5	10662.0	10860.6	10852.9	11182.2	12564.5	10692.7
50°	10059.8	10181.6	10587.7	10993.8	11421.7	11660.0	11925.2	11888.1	12146.9	13570.3	11724.1
52.5°	11077.1	11133.5	11434.5	11734.3	12266.0	12800.3	13180.8	13147.5	13241.0	14604.2	12895.1
55°	12131.5	12173.8	12298.1	12462.1	13177.0	14048.2	14852.7	14800.2	14563.2	15677.8	14052.0
57.5°	13079.6	13165.4	13251.3	13319.2	14094.3	15352.4	16563.1	16567.0	15998.1	16836.0	15247.3
60°	13226.9	13302.5	13870.1	14405.6	15663.7	17092.2	18393.9	18355.5	17483.0	18092.8	16579.8
62.5°	11692.1	11862.5	12810.5	14235.2	17175.5	20274.7	20729.5	20682.1	19258.7	19641.8	18131.3
65°	8378.9	8572.4	9716.5	11857.3	16442.7	23781.3	24944.6	24306.6	21680.2	21546.9	19948.0
67.5°	4833.9	4880.0	5375.8	7095.2	12519.7	23964.5	31374.9	30481.9	25440.4	23708.3	20837.1
70°	3574.5	3573.2	3691.1	4366.3	6774.9	19558.5	34433.0	35233.8	29399.3	24419.3	19580.3
71°	3232.4	3236.3	3368.2	3974.2	5365.6	16370.9	33783.5	35536.1	30442.2	24068.3	18670.7
72.5°	2764.8	2777.6	2960.8	3564.2	4513.6	11289.8	30985.4	33722.0	30936.7	23202.2	17247.3
75°	2097.3	2126.8	2380.4	3004.4	4125.4	5725.6	22741.0	26927.9	27482.6	20473.3	12815.7
77.5°	1496.4	1529.7	1816.7	2526.5	3921.7	4315.0	15229.4	19641.8	20224.7	13120.6	5780.7
80°	945.5	985.2	1201.7	2010.2	3684.7	4097.2	9570.4	13202.6	11028.4	4198.4	1470.8
82.5°	554.8	585.5	745.6	1313.2	3009.5	3946.0	5630.8	7318.1	4292.0	1268.4	668.8
85°	321.6	335.7	465.1	836.6	2185.7	3724.4	4136.9	4090.8	1862.8	620.1	316.5
87.5°	149.9	166.6	275.5	436.9	1213.3	2699.4	3269.6	2825.0	1158.2	290.8	148.6
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°	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5	10190.5
2.5°	10102.1	10080.3	9989.4	9908.7	9824.1	9713.9	9592.2	9576.8	9502.5	9516.6	9491.0
5°	9902.3	9847.2	9628.1	9429.5	9195.0	8984.9	8756.9	8651.8	8500.6	8490.4	8452.0
7.5°	9616.5	9514.1	9174.5	8797.9	8421.2	8062.5	7707.6	7474.4	7236.1	7134.9	7125.9
10°	9295.0	9120.7	8621.1	8063.8	7520.5	6996.5	6489.2	6113.8	5775.6	5615.4	5609.0
12.5°	8990.1	8732.5	8047.1	7288.6	6545.6	5866.5	5170.8	4677.6	4253.5	4111.3	4051.1
15°	8731.3	8368.7	7488.5	6518.7	5616.7	4673.8	3882.0	3363.1	2971.1	2835.3	2809.6
17.5°	8480.1	8013.8	6915.8	5741.0	4650.7	3614.2	2821.2	2435.5	2226.7	2171.6	2170.3
20°	8230.3	7648.7	6317.5	4945.4	3716.7	2703.3	2169.0	1996.1	1925.6	1919.2	1909.0
22.5°	7947.2	7261.7	5688.4	4147.2	2900.6	2125.5	1843.6	1774.4	1765.5	1788.5	1788.5
25°	7682.0	6877.4	5050.4	3365.7	2256.2	1773.2	1646.3	1632.2	1656.6	1697.6	1701.4
27.5°	7434.7	6507.1	4427.8	2671.3	1807.7	1561.8	1509.2	1525.9	1569.4	1616.9	1618.1
30°	7231.0	6157.4	3823.0	2105.0	1527.2	1404.2	1395.2	1428.5	1475.9	1513.1	1522.0
32.5°	7073.4	5858.8	3238.8	1692.4	1344.0	1286.3	1294.0	1322.2	1351.6	1372.1	1386.2
35°	7000.4	5602.6	2699.4	1427.2	1227.4	1195.3	1205.6	1221.0	1233.8	1249.2	1260.7
37.5°	7013.2	5404.0	2217.7	1262.0	1149.2	1132.6	1132.6	1132.6	1132.6	1140.3	1141.5
40°	7132.3	5290.0	1825.7	1156.9	1096.7	1078.8	1064.7	1051.9	1041.6	1046.7	1044.2
42.5°	7437.3	5279.7	1538.7	1090.3	1054.4	1024.9	996.8	978.8	966.0	971.1	973.7
45°	7954.9	5407.9	1345.2	1042.9	1014.7	969.9	934.0	914.8	905.8	922.5	925.0
47.5°	8624.9	5687.2	1227.4	1008.3	977.5	918.6	880.2	862.2	864.8	889.1	895.5
50°	9488.4	6140.7	1171.0	986.5	951.9	875.0	835.3	820.0	827.6	862.2	869.9
52.5°	10436.5	6794.1	1177.4	980.1	935.3	843.0	800.7	782.8	795.6	827.6	834.0
55°	11530.6	7579.5	1283.7	989.1	910.9	822.5	772.6	741.8	752.1	781.5	786.6
57.5°	12746.5	8478.9	1497.7	986.5	880.2	803.3	743.1	697.0	704.6	722.6	727.7
60°	14012.3	9565.3	1829.5	994.2	866.1	780.2	703.4	645.7	643.2	658.5	661.1
62.5°	15531.8	10822.1	2208.8	999.3	875.0	750.8	650.8	594.5	586.8	590.6	593.2
65°	17097.4	11731.8	2066.5	978.8	903.2	726.4	604.7	544.5	530.4	527.8	529.1
67.5°	17146.1	10756.8	1449.0	937.8	914.8	713.6	570.1	502.2	479.2	470.2	468.9
70°	15376.7	8738.9	1128.7	894.3	868.6	693.1	538.1	467.6	433.0	418.9	417.7
71°	14513.2	8044.5	1069.8	872.5	834.0	672.6	524.0	452.3	416.4	401.0	398.4
72.5°	13159.0	7211.8	998.0	837.9	767.4	620.1	497.1	430.5	393.3	375.4	371.5
75°	9443.6	4716.0	857.1	746.9	635.5	494.5	435.6	386.9	354.9	333.1	330.5
77.5°	3638.6	1876.9	648.3	621.4	486.8	386.9	358.7	334.4	311.3	289.5	288.3
80°	1124.9	839.2	472.8	467.6	352.3	288.3	279.3	272.9	263.9	240.9	235.7
82.5°	600.9	481.7	325.4	302.4	230.6	192.2	202.4	205.0	206.3	181.9	179.4
85°	287.0	255.0	183.2	171.7	134.5	107.6	124.3	134.5	135.8	111.5	103.8
87.5°	137.1	133.2	85.8	65.3	50.0	35.9	43.6	53.8	58.9	42.3	37.2
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)