

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: P383421

Luminaire Tested: **GLEON-SA7B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35779.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

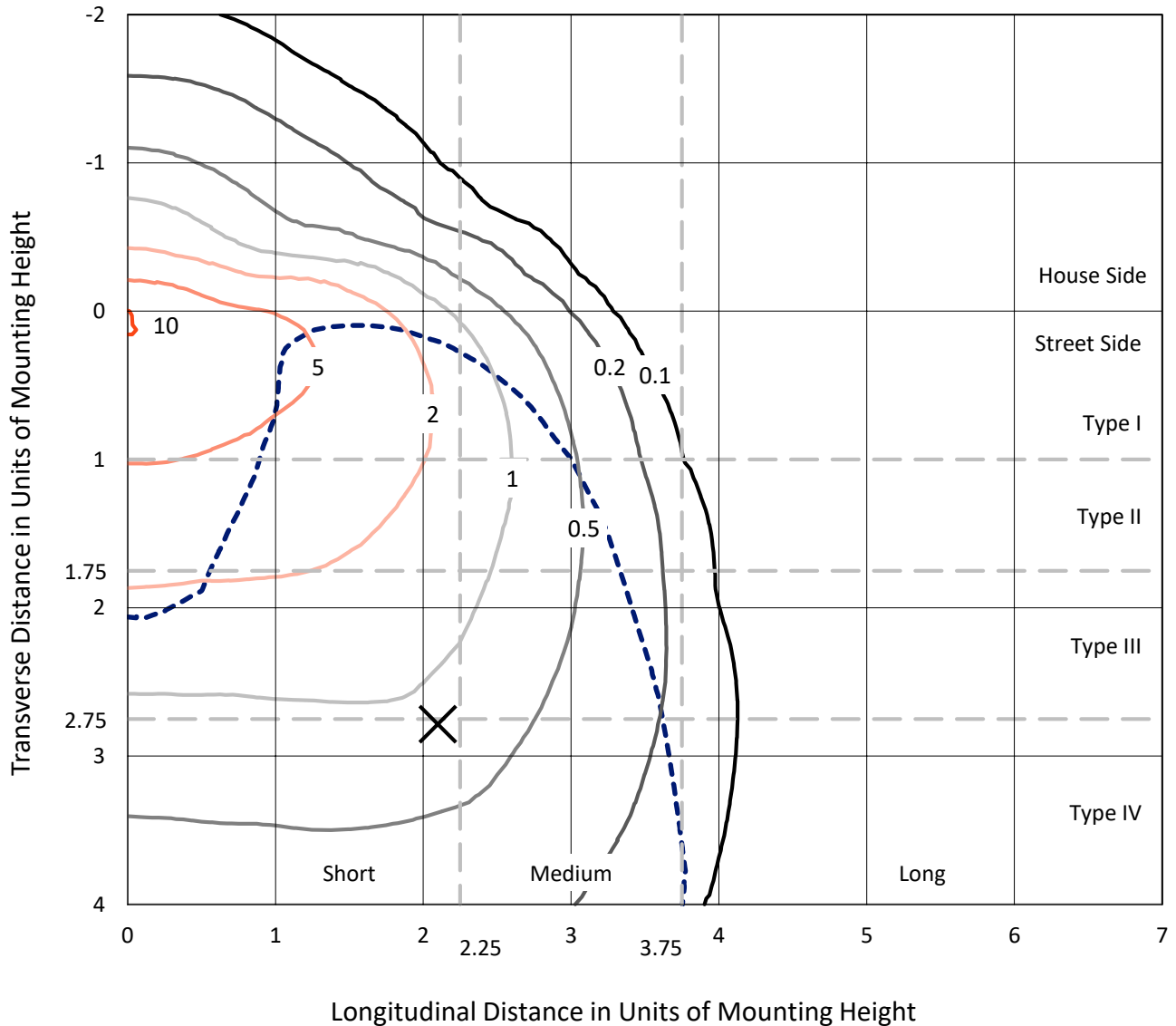
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

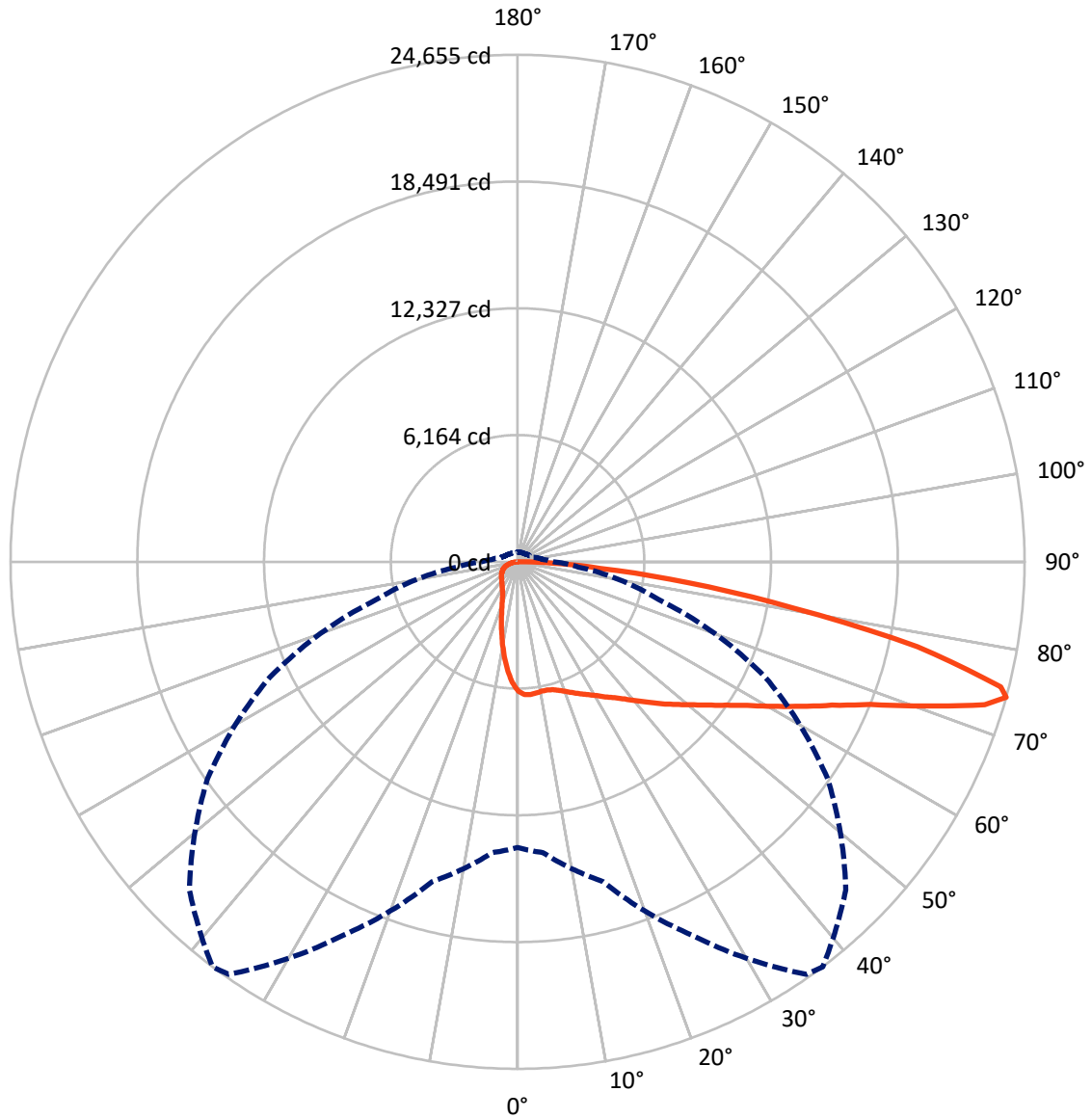
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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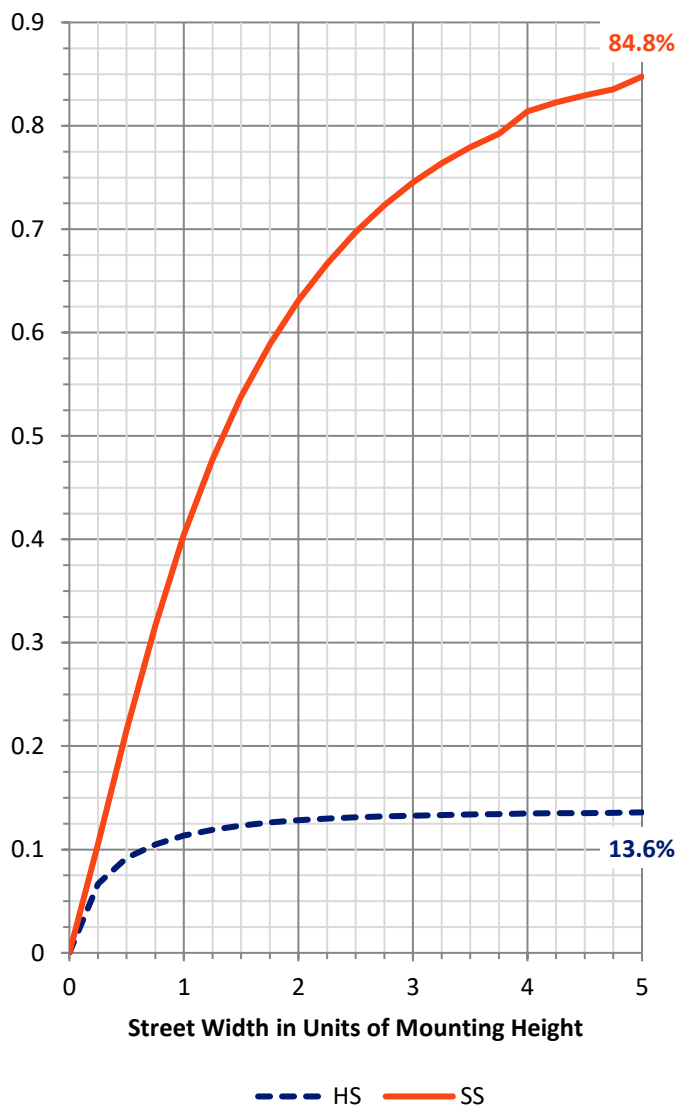
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.1	0.0	4923.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	30856.8	0.0	30856.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	35779.8	0.0	35779.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	1.6
10°-20°	1423.0	4.0
20°-30°	2192.6	6.1
30°-40°	3188.4	8.9
40°-50°	4692.7	13.1
50°-60°	6590.1	18.4
60°-70°	8341.0	23.3
70°-80°	7344.6	20.5
80°-90°	1452.2	4.1
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°	35779.8	100.0
0°-180°	35779.8	100.0

Coefficient of Utilization

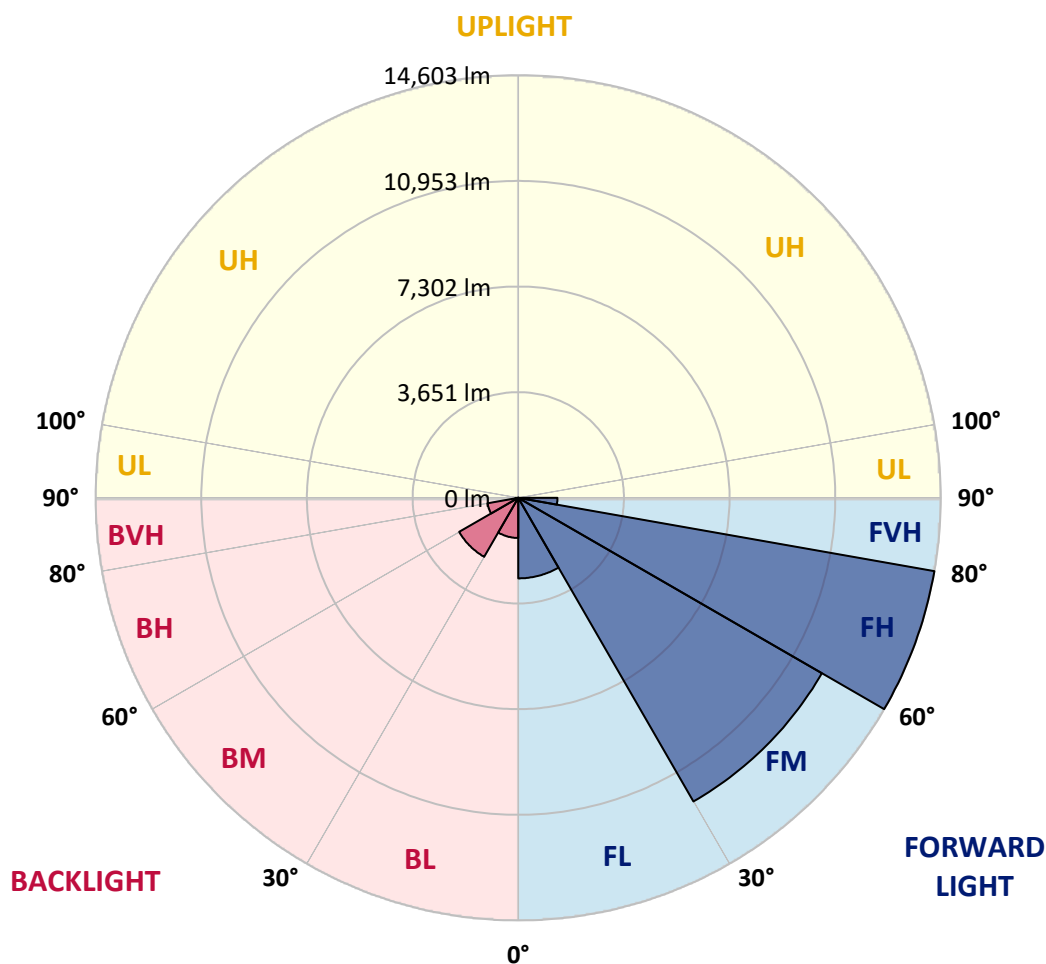


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.1	7.8			
FM (30°-60°)	12115.3	33.9			
FH (60°-80°)	14603.5	40.8			G5
FVH (80°-90°)	1353.8	3.8			G5
BL (0°-30°)	1386.7	3.9	B3/2500		
BM (30°-60°)	2355.9	6.6	B2/2500		
BH (60°-80°)	1082.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	98.3	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2
2.5°	6519.8	6521.0	6519.8	6509.7	6485.7	6465.6	6449.2	6425.3	6372.3	6332.0	6271.5
5°	6581.6	6574.0	6568.9	6550.0	6512.3	6489.5	6458.0	6412.7	6325.7	6245.0	6146.7
7.5°	6552.6	6543.7	6532.4	6509.7	6466.8	6448.0	6403.8	6344.6	6240.0	6134.1	5992.9
10°	6463.1	6460.6	6455.5	6450.5	6413.9	6398.8	6358.5	6295.4	6192.1	6063.5	5898.5
12.5°	6363.5	6369.8	6390.0	6416.4	6400.0	6392.5	6367.3	6324.5	6218.5	6079.9	5880.8
15°	6300.5	6318.1	6372.3	6441.7	6455.5	6453.0	6446.7	6418.9	6306.8	6153.1	5921.1
17.5°	6279.1	6308.1	6411.4	6526.0	6566.4	6575.2	6577.8	6529.9	6405.1	6242.5	5962.7
20°	6318.1	6354.6	6505.9	6663.5	6727.7	6732.8	6721.4	6638.3	6498.4	6319.4	5985.4
22.5°	6436.6	6469.4	6658.4	6836.2	6909.2	6916.8	6882.7	6756.7	6596.7	6410.2	6016.9
25°	6664.8	6705.1	6894.1	7071.8	7109.7	7110.9	7061.7	6905.5	6725.2	6537.4	6085.0
27.5°	6962.2	7002.5	7172.6	7346.6	7326.4	7315.1	7248.3	7092.0	6892.9	6712.6	6206.0
30°	7293.6	7337.7	7499.1	7622.6	7574.7	7552.0	7497.8	7296.2	7126.0	6952.0	6391.3
32.5°	7636.5	7676.8	7817.9	7902.4	7841.9	7831.8	7749.9	7565.8	7429.7	7317.6	6691.2
35°	7988.1	8017.1	8155.7	8203.6	8122.9	8120.4	8097.8	7928.9	7843.2	7896.1	7127.3
37.5°	8347.3	8354.9	8473.4	8475.9	8451.9	8462.0	8485.9	8380.0	8404.0	8569.1	7694.4
40°	8667.4	8687.6	8773.3	8799.8	8841.3	8876.6	8996.3	8927.0	9112.3	9404.7	8400.2
42.5°	8904.4	8943.4	9080.8	9148.9	9283.7	9339.1	9508.0	9572.3	9945.4	10384.1	9239.6
45°	9104.8	9165.2	9385.8	9525.7	9753.9	9850.9	10092.9	10308.4	10886.9	11446.5	10123.1
47.5°	9321.5	9398.4	9674.4	9941.7	10251.7	10361.3	10801.2	11123.8	11891.4	12515.2	10956.2
50°	9640.4	9699.6	9969.3	10389.1	10776.0	10917.2	11525.9	11988.5	12912.3	13533.6	11678.3
52.5°	10085.3	10062.7	10290.7	10879.4	11398.6	11572.5	12299.8	12908.5	13947.0	14454.9	12288.4
55°	10532.7	10494.9	10654.9	11392.3	12124.6	12307.3	13151.8	13832.4	14931.3	15284.3	12756.0
57.5°	11030.5	10958.7	11093.6	11970.8	12951.3	13169.4	14105.9	14814.1	15899.3	15954.7	13053.4
60°	11543.6	11446.5	11597.8	12688.0	14001.3	14258.4	15222.5	15772.0	16811.8	16491.7	13149.3
62.5°	11992.2	11924.2	12157.3	13488.3	15184.7	15467.0	16319.0	16790.4	17711.7	16714.8	12803.8
65°	12384.2	12395.5	12798.8	14388.1	16504.2	16805.5	17576.8	18045.7	18420.0	16582.4	11996.0
67.5°	12851.8	12916.1	13604.2	15572.9	18165.4	18495.6	19406.8	19414.4	18815.8	15806.0	10405.5
70°	13533.6	13666.0	14712.0	17216.4	20527.3	20981.1	21684.3	20218.5	18259.9	13701.3	8187.2
72.5°	14138.6	14385.6	15890.4	19096.8	23406.0	23750.0	23016.5	19754.7	15937.1	10268.1	5100.6
74°	13892.8	14199.1	16104.8	20023.1	24489.8	24654.9	22566.6	18401.0	13287.9	7110.9	2964.4
75°	13363.5	13696.2	15792.2	20014.3	24352.4	24260.5	21480.1	16854.7	10943.6	4849.8	1972.5
77.5°	10784.8	11136.5	13306.8	17153.3	19967.7	19880.7	16500.5	11306.6	4793.1	1590.5	1002.0
80°	6270.2	6538.7	8260.3	10893.2	13464.3	13621.8	10851.6	5594.7	1885.5	893.6	679.3
82.5°	2785.3	2970.6	3990.3	5560.7	8125.4	8328.4	5682.9	2931.6	1164.5	543.2	408.4
85°	1827.5	1964.9	2422.4	2648.0	3869.3	4007.9	2781.6	2282.5	768.8	298.7	300.0
87.5°	1314.5	1446.9	1799.7	1571.6	1775.8	1681.4	1513.7	2112.4	308.8	170.1	100.8
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°	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2	6304.2
2.5°	6245.0	6224.9	6179.5	6093.8	6045.9	6005.6	5938.8	5899.7	5882.1	5880.8	5888.3
5°	6090.0	6043.4	5926.1	5782.5	5667.8	5563.2	5433.3	5355.2	5299.8	5267.0	5275.8
7.5°	5909.7	5836.7	5652.6	5423.3	5239.3	5036.3	4835.9	4716.2	4623.0	4553.7	4566.3
10°	5786.2	5685.4	5416.9	5086.8	4780.5	4485.6	4209.6	4044.5	3913.3	3812.5	3820.1
12.5°	5744.7	5608.6	5236.8	4795.6	4365.9	3962.5	3602.1	3348.7	3213.9	3099.2	3108.0
15°	5751.0	5568.2	5085.5	4533.5	3992.8	3484.8	3047.6	2751.3	2568.6	2489.2	2490.5
17.5°	5756.0	5521.6	4926.7	4252.4	3623.5	3038.7	2563.5	2263.6	2091.0	2017.8	2019.0
20°	5739.6	5445.9	4730.1	3929.7	3237.9	2629.1	2169.0	1914.4	1783.4	1726.7	1726.7
22.5°	5718.2	5356.5	4508.2	3605.8	2857.2	2273.6	1886.8	1692.6	1617.1	1579.3	1577.9
25°	5728.3	5289.7	4281.4	3273.1	2506.8	1990.1	1699.0	1570.4	1520.0	1496.1	1494.8
27.5°	5782.5	5258.2	4072.2	2941.6	2200.6	1777.1	1572.9	1482.2	1449.4	1434.3	1434.3
30°	5880.8	5258.2	3854.2	2659.4	1946.0	1619.6	1475.9	1414.1	1391.5	1381.3	1381.3
32.5°	6052.2	5287.2	3643.7	2379.5	1743.0	1496.1	1395.2	1353.6	1335.9	1330.9	1330.9
35°	6347.1	5385.5	3438.2	2114.9	1579.3	1395.2	1318.3	1294.4	1281.8	1280.5	1284.3
37.5°	6761.7	5585.8	3245.4	1919.5	1463.3	1313.3	1254.0	1235.1	1227.6	1233.8	1239.0
40°	7283.6	5858.1	3070.2	1743.0	1375.1	1247.7	1194.8	1182.2	1178.4	1187.3	1194.8
42.5°	7913.7	6226.1	2926.5	1615.8	1307.0	1192.3	1144.4	1129.3	1125.5	1135.6	1145.6
45°	8595.6	6621.9	2825.7	1521.2	1254.0	1150.7	1100.3	1083.9	1076.3	1081.3	1092.7
47.5°	9215.7	6996.2	2785.3	1454.4	1203.7	1115.4	1061.2	1041.0	1028.4	1025.9	1034.8
50°	9738.7	7274.7	2804.2	1414.1	1163.3	1076.3	1023.4	1000.8	981.9	970.5	976.7
52.5°	10119.3	7450.0	2821.9	1396.5	1131.8	1033.5	981.9	960.4	935.2	916.3	916.3
55°	10395.3	7490.3	2782.8	1382.6	1107.9	986.9	935.2	915.1	889.8	868.4	865.9
57.5°	10503.8	7376.8	2637.9	1362.5	1091.5	942.7	886.0	870.9	849.5	824.2	823.0
60°	10357.5	7026.5	2358.1	1319.6	1070.1	906.2	836.9	826.7	816.7	792.7	791.5
62.5°	9770.3	6257.7	1996.4	1232.6	1027.2	867.1	791.5	796.6	797.8	781.4	778.9
65°	8705.2	5201.5	1643.5	1119.2	962.9	820.5	744.9	768.8	782.7	780.2	776.4
67.5°	7157.5	4048.2	1392.7	999.5	878.4	756.2	694.5	722.1	733.5	742.4	739.8
70°	5312.3	2854.7	1152.0	873.4	776.4	680.6	628.9	642.8	635.2	645.3	649.1
72.5°	2961.9	1712.8	939.0	747.4	670.5	592.4	555.9	553.3	536.9	536.9	536.9
74°	1777.1	1256.6	825.5	669.2	606.3	534.4	502.8	491.6	476.4	477.7	476.4
75°	1429.3	1080.1	757.4	617.6	560.9	500.3	468.8	453.8	442.4	442.4	441.1
77.5°	902.4	820.5	610.0	491.6	448.7	412.1	390.7	370.6	370.6	369.3	368.1
80°	681.9	652.8	475.2	371.8	344.1	316.4	302.5	293.6	293.6	297.4	296.1
82.5°	467.5	491.6	334.0	259.6	245.7	225.6	223.1	224.3	220.6	215.6	214.3
85°	341.6	369.3	225.6	163.9	150.0	137.4	147.5	152.5	146.2	134.9	129.9
87.5°	131.1	242.0	121.0	68.1	63.0	54.2	63.0	65.6	70.6	55.4	56.7
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)