

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: P383529

Luminaire Tested: **GLEON-SA8B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41795.7 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

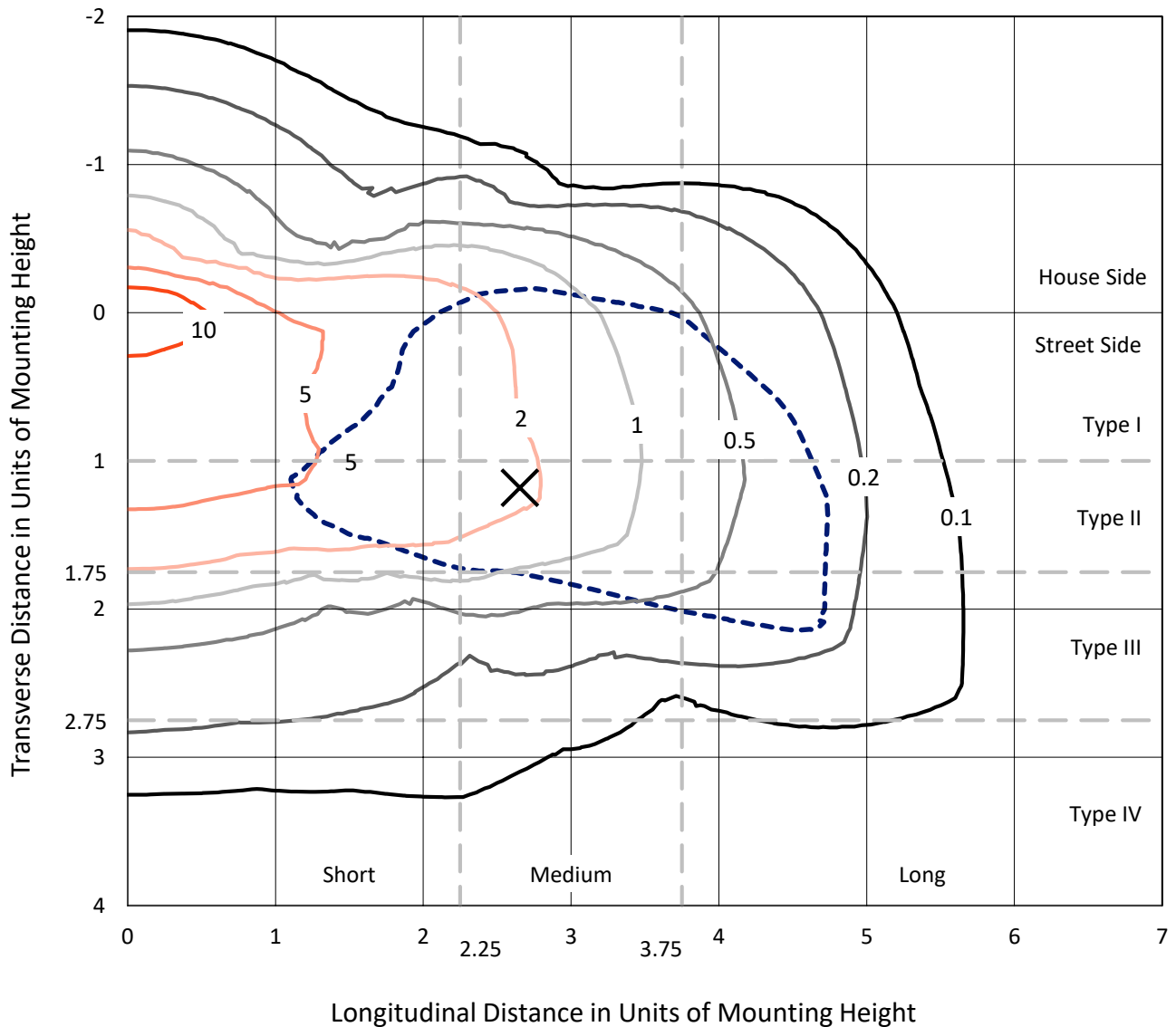
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

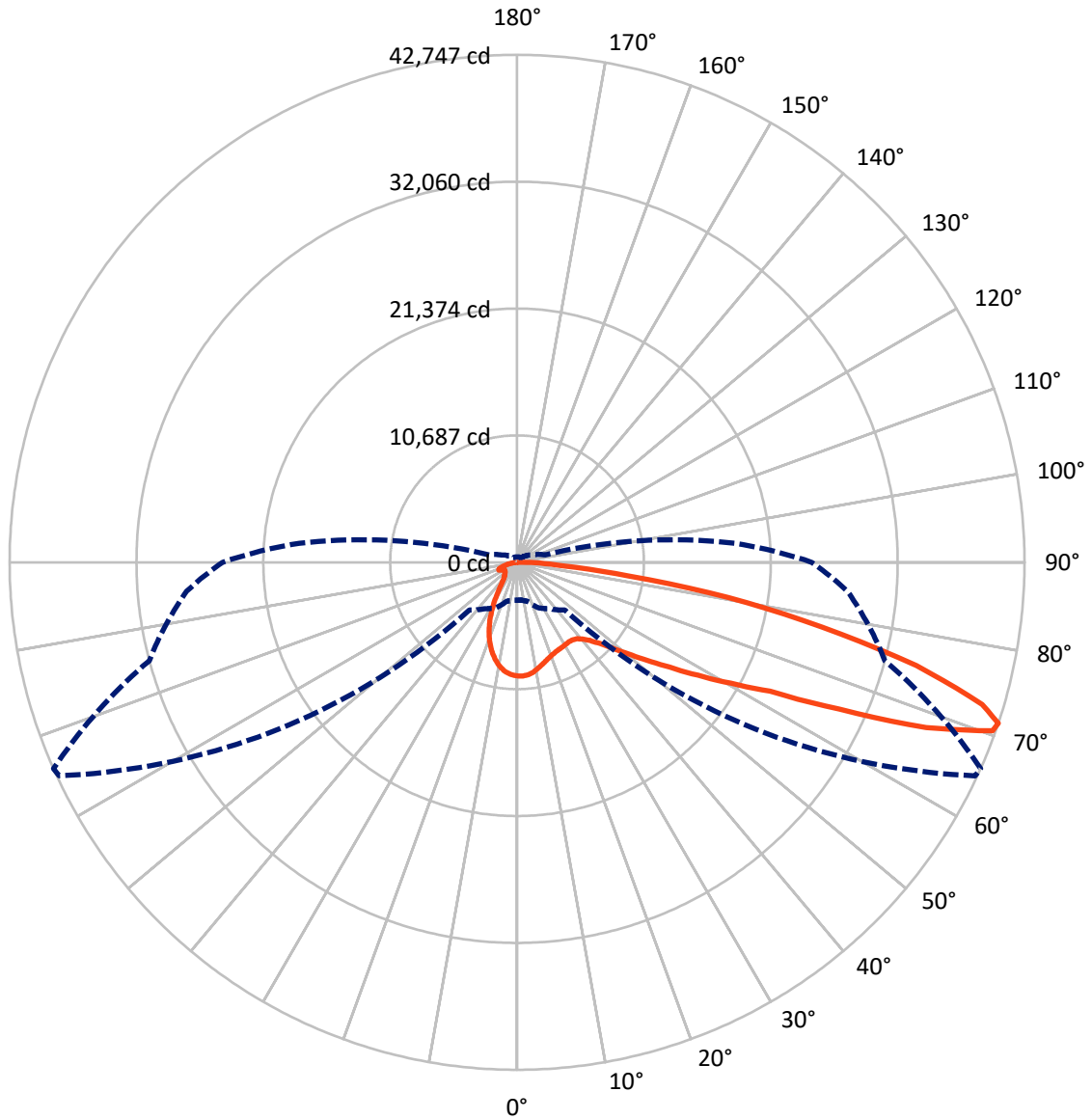
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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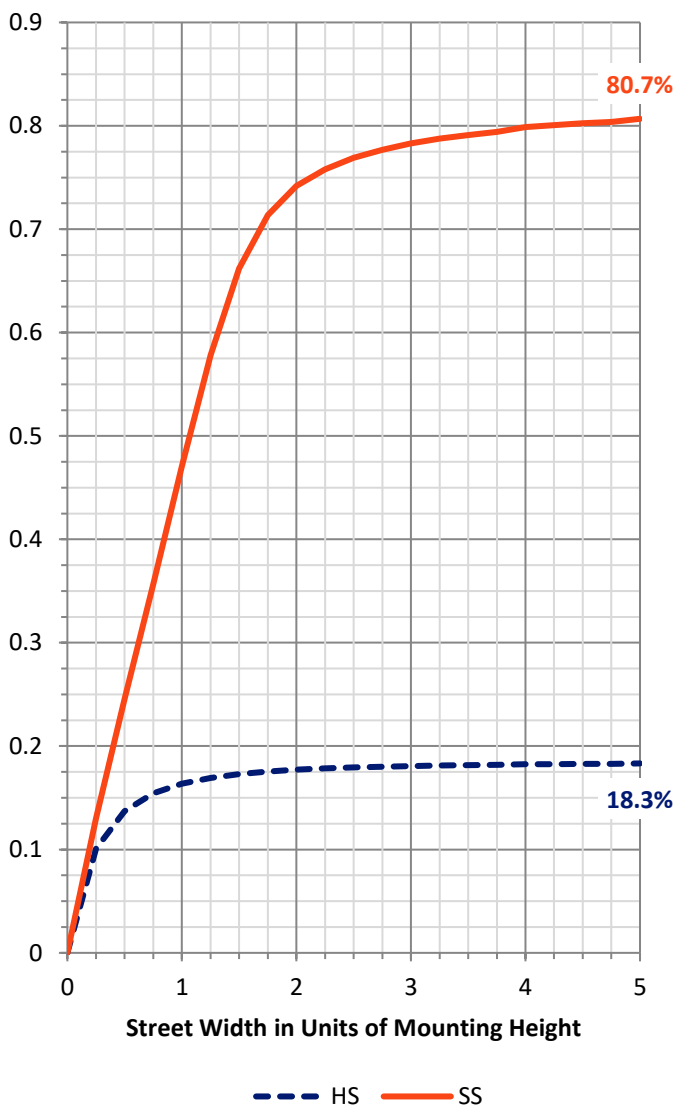
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7745.9	0.0	7745.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	34049.9	0.0	34049.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	41795.7	0.0	41795.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.8	2.0
10°-20°	2021.4	4.8
20°-30°	2715.2	6.5
30°-40°	3571.8	8.5
40°-50°	5196.1	12.4
50°-60°	8116.8	19.4
60°-70°	10167.6	24.3
70°-80°	7755.6	18.6
80°-90°	1408.3	3.4
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°	41795.7	100.0
0°-180°	41795.7	100.0

Coefficient of Utilization

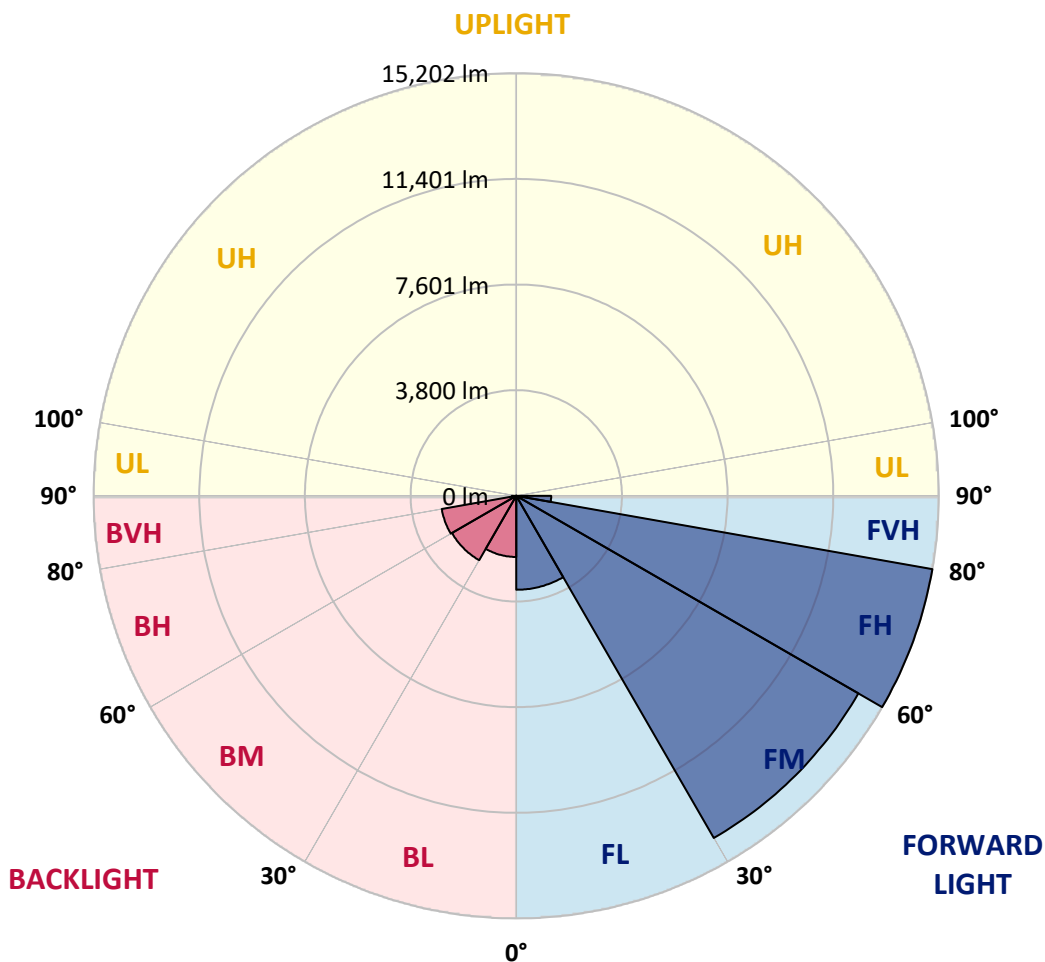


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.8	8.1			
FM (30°-60°)	14212.6	34.0			
FH (60°-80°)	15201.6	36.4			G5
FVH (80°-90°)	1255.9	3.0			G5
BL (0°-30°)	2199.6	5.3	B3/2500		
BM (30°-60°)	2672.1	6.4	B3/5000		
BH (60°-80°)	2721.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	152.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6
2.5°	9397.1	9382.6	9426.0	9470.7	9488.0	9516.9	9560.2	9584.7	9583.3	9587.6	9573.1
5°	8773.7	8755.0	8841.5	8912.2	9047.8	9200.8	9387.0	9519.8	9522.7	9597.6	9617.9
7.5°	8183.5	8170.5	8270.1	8384.1	8541.4	8775.2	9076.7	9362.4	9379.8	9583.3	9654.0
10°	7710.1	7707.3	7803.9	7928.1	8111.4	8372.6	8718.9	9137.4	9163.4	9514.0	9659.8
12.5°	7340.8	7346.6	7430.2	7571.6	7765.0	8037.8	8412.9	8884.8	8926.6	9404.3	9626.5
15°	7068.0	7091.1	7158.9	7301.8	7492.3	7769.4	8154.7	8651.0	8714.5	9281.7	9607.8
17.5°	6912.2	6938.2	6985.8	7104.1	7283.0	7550.0	7915.1	8459.1	8516.9	9187.9	9609.2
20°	6866.0	6887.7	6915.1	6987.3	7138.7	7381.2	7726.1	8285.9	8348.0	9112.9	9623.6
22.5°	6956.9	6972.8	6975.7	6969.9	7062.2	7259.9	7588.9	8159.0	8225.4	9063.8	9633.8
25°	7151.8	7173.4	7157.5	7104.1	7073.8	7195.0	7518.2	8075.3	8141.6	9027.7	9613.6
27.5°	7444.6	7447.5	7434.6	7365.3	7222.5	7202.3	7496.6	8026.2	8089.7	8985.8	9571.7
30°	7843.0	7861.7	7838.6	7744.8	7511.1	7317.7	7522.6	7978.6	8036.3	8932.4	9503.9
32.5°	8309.0	8355.2	8353.7	8255.7	7920.9	7576.0	7629.4	7949.7	7994.4	8876.2	9421.7
35°	8792.5	8855.9	8974.3	8932.4	8518.3	7984.4	7834.3	7995.9	8026.2	8869.0	9363.9
37.5°	9294.6	9358.1	9602.0	9714.6	9229.7	8568.8	8157.6	8159.0	8173.4	8957.0	9359.5
40°	9819.9	9887.7	10254.3	10547.2	10151.8	9309.0	8678.5	8499.5	8483.7	9173.4	9444.7
42.5°	10555.8	10616.5	11056.6	11430.4	11174.9	10257.2	9398.6	9024.8	8991.6	9597.6	9717.4
45°	11486.6	11538.6	12006.2	12405.9	12274.5	11339.4	10303.3	9747.8	9742.0	10304.8	10270.1
47.5°	12593.4	12633.8	13053.8	13440.6	13488.2	12584.7	11440.4	10863.2	10769.4	11274.5	11125.8
50°	13746.5	13791.2	14076.9	14492.5	14846.1	14251.5	12903.7	12229.8	12104.3	12554.5	12338.1
52.5°	14509.8	14568.9	14817.2	15343.9	16372.8	16078.4	14633.9	13886.4	13695.9	14105.8	13939.8
55°	14169.2	14302.1	14681.6	15525.7	17593.6	18869.2	16768.1	15818.6	15603.6	15944.2	15846.1
57.5°	12620.9	12802.7	13320.8	14623.8	17765.4	21328.2	19994.8	18094.3	17942.8	17844.7	17889.4
60°	9791.0	9965.7	10607.8	12306.3	16569.1	23123.3	24850.6	20899.6	20680.3	19752.3	19792.8
62.5°	6929.5	6841.5	7281.6	8524.0	13463.6	23334.1	30376.1	24651.5	23930.0	21766.9	21589.4
65°	5284.4	5264.3	5461.9	5857.3	8154.7	20813.0	33667.6	30957.7	29830.6	24136.4	23717.9
67.5°	4342.1	4306.1	4500.9	5076.7	5251.2	13427.5	33739.8	38273.8	37167.1	27086.0	26179.7
70°	3570.1	3529.7	3711.5	4454.7	4853.0	6809.7	28396.2	42558.2	42499.1	30820.5	28038.4
71°	3200.7	3171.8	3389.7	4215.2	4767.8	5675.5	24517.3	42569.8	42747.3	32084.6	27928.6
72.5°	2606.1	2616.3	2847.1	3751.9	4704.3	5011.7	18019.3	40585.6	40960.8	33289.6	26931.5
75°	1731.7	1740.3	2043.3	2886.1	4561.4	4903.5	9903.7	34055.8	34745.6	32568.0	24575.1
77.5°	1163.1	1160.2	1366.6	1979.8	3974.2	4903.5	5806.8	25471.2	26228.7	25914.2	18945.7
80°	800.9	795.1	940.9	1366.6	3008.7	4962.6	4489.3	17850.4	18079.9	13994.6	7700.1
82.5°	490.6	494.9	614.7	965.4	2047.6	4466.2	4238.3	9733.4	9483.7	3925.1	1923.6
85°	281.4	279.9	392.6	653.7	1314.6	3769.2	4132.9	4189.2	3842.8	1181.9	695.6
87.5°	101.0	108.2	210.7	362.2	753.2	2624.9	3506.6	2179.0	1964.0	534.0	314.6
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°	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6
2.5°	9563.1	9571.7	9561.6	9503.9	9454.8	9375.5	9330.8	9268.7	9249.9	9241.2	9264.3
5°	9599.1	9602.0	9516.9	9365.3	9195.1	8994.5	8850.2	8672.7	8589.0	8552.9	8576.0
7.5°	9632.3	9619.3	9433.2	9143.1	8828.6	8479.3	8169.1	7884.8	7718.8	7651.0	7656.8
10°	9636.7	9581.8	9283.1	8834.3	8346.6	7834.3	7358.1	6919.3	6642.3	6462.0	6516.8
12.5°	9592.0	9499.5	9062.3	8434.6	7757.8	7059.4	6415.8	5757.7	5362.4	5179.1	5184.9
15°	9557.3	9389.9	8791.0	7964.2	7055.1	6130.0	5251.2	4477.8	4056.4	3868.8	3780.8
17.5°	9528.4	9271.6	8476.4	7434.6	6225.3	5052.1	3995.8	3306.0	3075.1	3020.3	2997.2
20°	9488.0	9146.0	8125.8	6821.3	5280.1	3845.7	2917.8	2577.3	2578.7	2642.2	2650.9
22.5°	9431.7	9003.1	7752.1	6132.9	4265.6	2801.0	2287.2	2189.1	2288.6	2409.9	2431.5
25°	9348.1	8834.3	7336.4	5372.4	3252.6	2153.0	1953.9	1949.5	2070.7	2197.8	2216.5
27.5°	9229.7	8613.6	6874.6	4555.7	2396.9	1829.7	1750.4	1780.7	1870.2	1962.6	1969.8
30°	9070.9	8356.6	6365.3	3694.2	1878.8	1629.2	1620.5	1648.0	1702.8	1767.7	1773.5
32.5°	8896.4	8095.5	5821.2	2860.1	1609.0	1520.9	1529.6	1542.6	1568.6	1594.5	1600.3
35°	8737.6	7828.5	5264.3	2173.2	1480.6	1450.2	1444.5	1441.6	1444.5	1435.8	1437.3
37.5°	8635.2	7607.8	4684.1	1730.2	1407.0	1388.2	1370.9	1349.3	1324.8	1310.3	1313.2
40°	8597.6	7443.3	4096.8	1494.9	1346.4	1333.4	1300.2	1254.0	1225.2	1216.5	1216.5
42.5°	8698.7	7358.1	3529.7	1376.6	1295.9	1274.2	1219.4	1166.0	1144.3	1142.9	1141.4
45°	9007.5	7392.7	2990.0	1311.7	1249.7	1207.8	1135.6	1090.9	1076.5	1079.4	1078.0
47.5°	9561.6	7610.7	2528.2	1268.4	1203.5	1148.7	1067.8	1031.8	1014.5	1014.5	1015.9
50°	10503.9	8120.0	2160.3	1232.3	1164.5	1093.8	1018.8	974.0	950.9	949.5	949.5
52.5°	11876.2	9032.0	1930.8	1202.1	1121.2	1044.7	969.7	913.5	886.0	880.2	877.3
55°	13596.4	10339.4	1867.3	1181.9	1063.5	991.4	910.6	854.3	824.0	811.0	809.5
57.5°	15520.0	11929.7	1992.9	1157.4	1004.4	927.9	845.7	792.2	760.5	744.6	743.2
60°	17466.6	13665.6	2505.1	1122.7	955.3	858.6	779.2	730.1	698.5	681.1	678.3
62.5°	19416.2	15495.4	3551.3	1119.8	920.6	792.2	711.4	669.6	639.2	620.5	616.2
65°	21615.4	17498.4	4740.4	1196.3	909.1	731.6	642.1	609.0	583.0	565.6	564.2
67.5°	24140.7	19759.6	4626.4	1353.5	948.0	676.8	577.2	551.2	532.5	518.0	516.6
70°	25325.4	19406.1	2876.0	1464.7	1002.9	623.4	515.1	496.4	482.0	471.8	467.5
71°	24829.0	18426.2	2411.3	1451.7	997.1	600.3	490.6	476.2	461.8	453.1	448.8
72.5°	23475.5	16804.3	2011.6	1350.7	932.2	558.5	458.9	444.4	431.5	421.3	418.5
75°	21065.6	15007.7	1610.5	1079.4	743.2	471.8	402.6	386.8	376.6	370.8	365.1
77.5°	15485.3	10710.3	1245.4	852.8	546.9	385.3	343.5	331.9	321.8	313.2	308.8
80°	5932.4	4148.7	838.4	636.3	401.1	304.5	277.0	271.3	261.2	255.4	255.4
82.5°	1597.4	1239.6	447.3	385.3	268.4	222.3	212.1	209.2	200.6	189.0	190.5
85°	646.5	546.9	251.1	212.1	164.5	131.3	142.9	144.3	134.2	119.8	121.2
87.5°	284.3	232.3	140.0	93.8	72.2	50.5	64.9	64.9	59.2	49.1	44.7
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)