

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: P383223

Luminaire Tested: **GLEON-SA5C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383223
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-SA5C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 32934.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

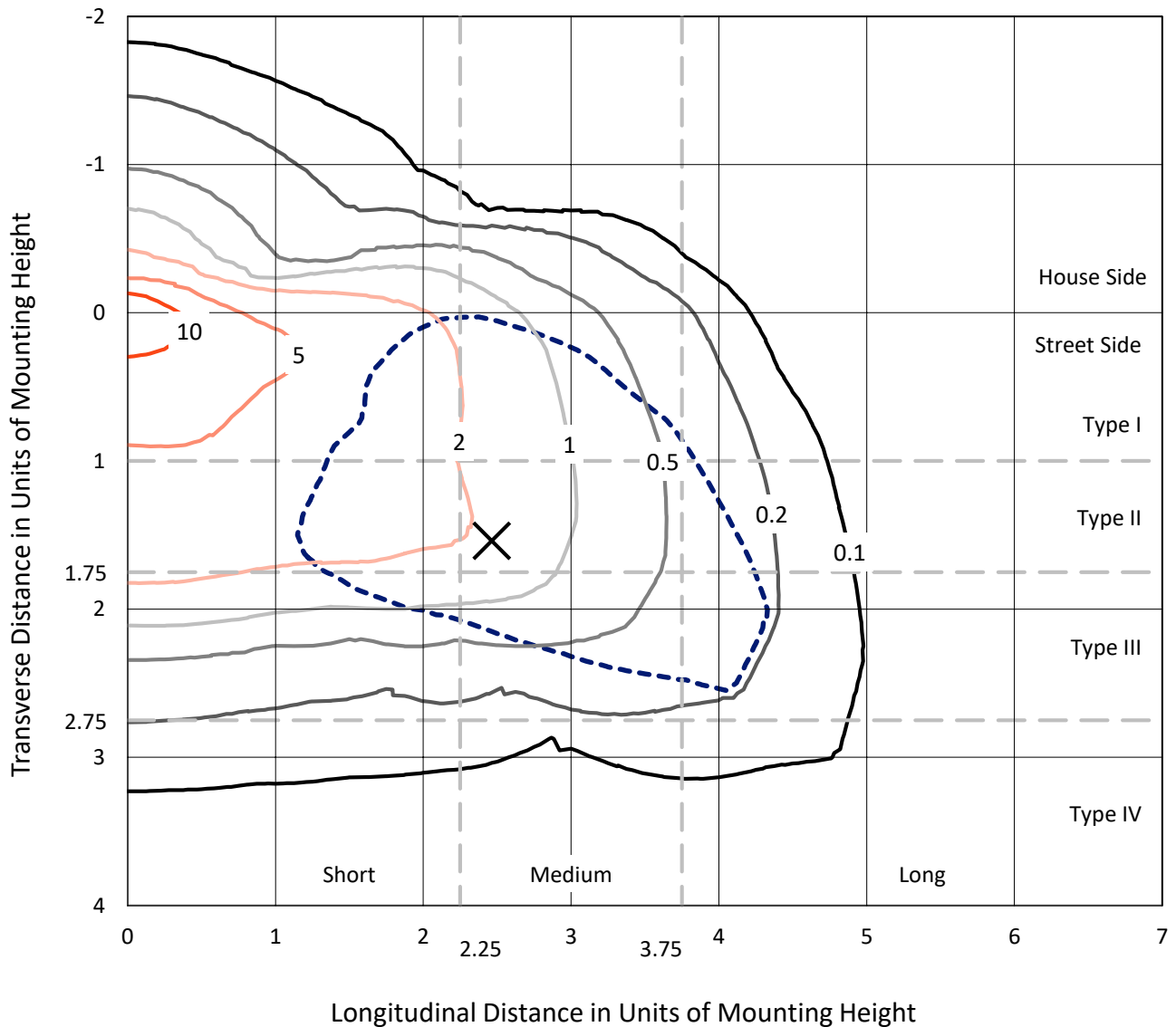
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

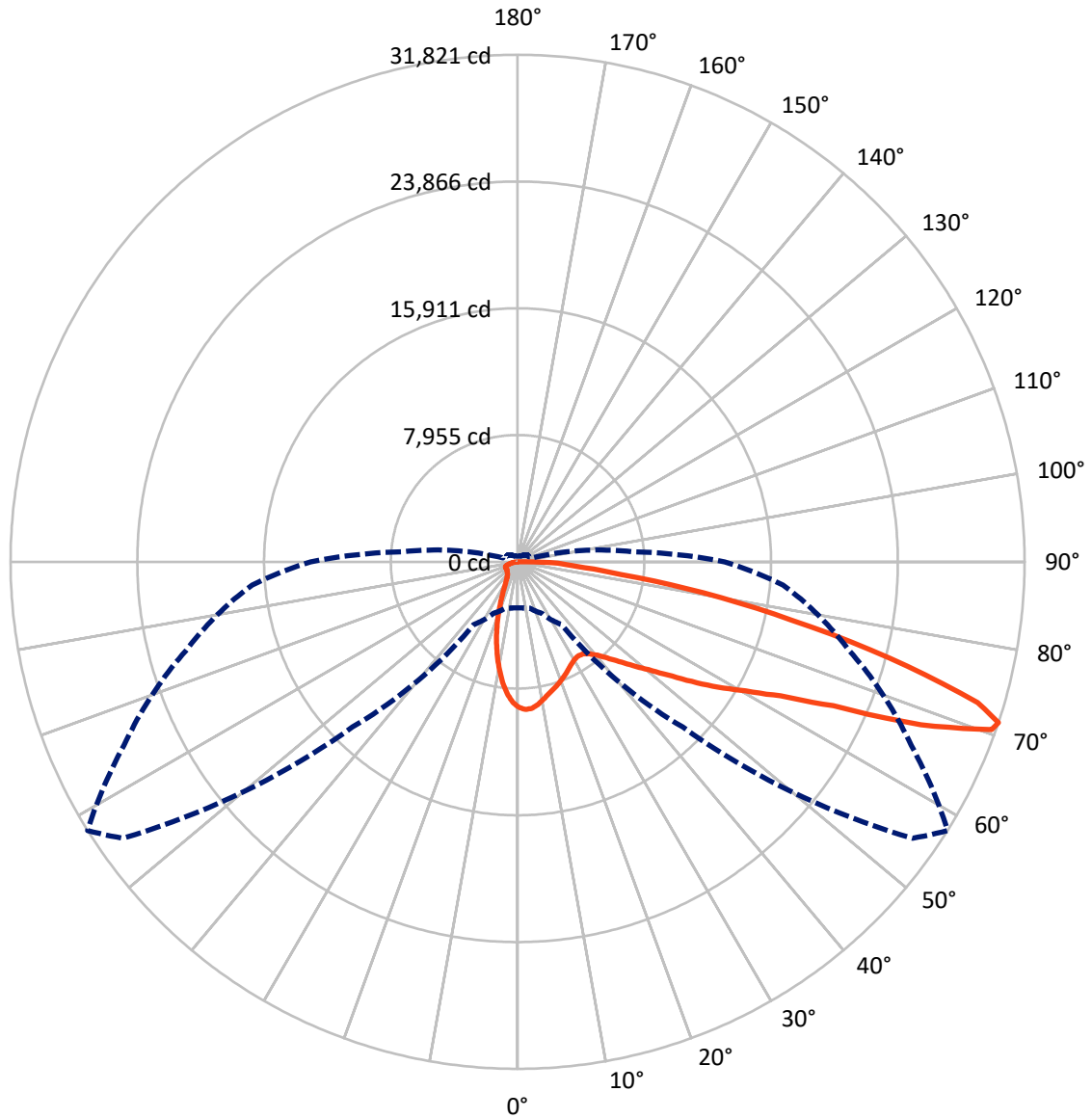
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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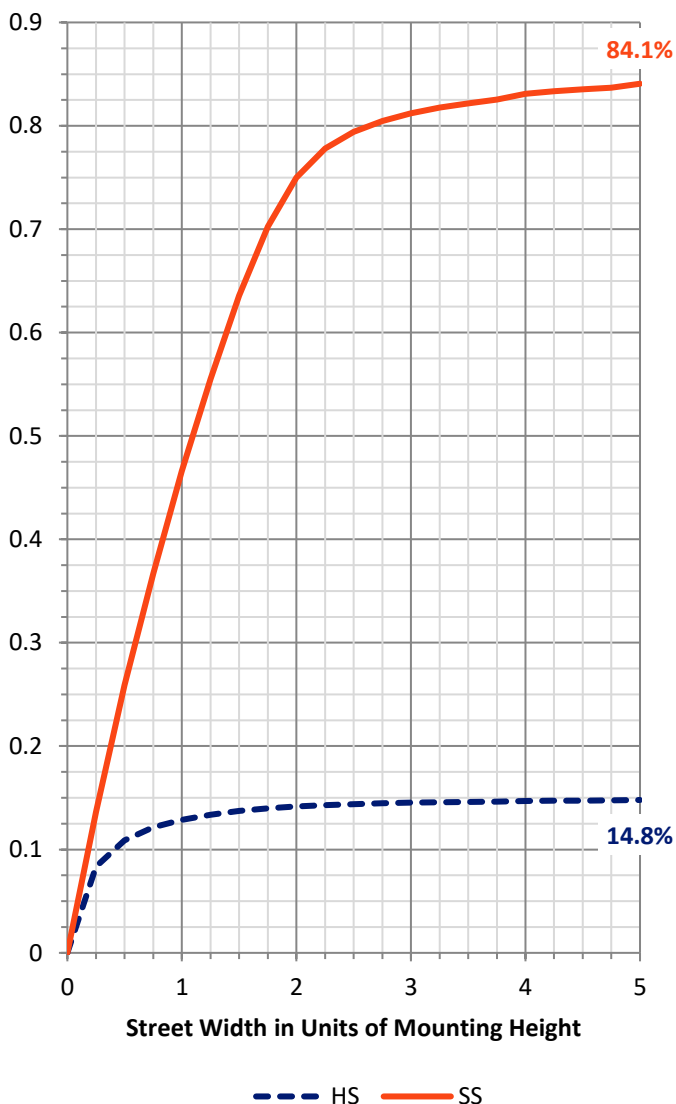
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4924.0	0.0	4924.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28010.9	0.0	28010.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	32934.9	0.0	32934.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.2	2.4
10°-20°	1750.5	5.3
20°-30°	2224.7	6.8
30°-40°	2833.8	8.6
40°-50°	4018.5	12.2
50°-60°	6218.8	18.9
60°-70°	8466.1	25.7
70°-80°	5647.8	17.1
80°-90°	987.4	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°	32934.9	100.0
0°-180°	32934.9	100.0

Coefficient of Utilization

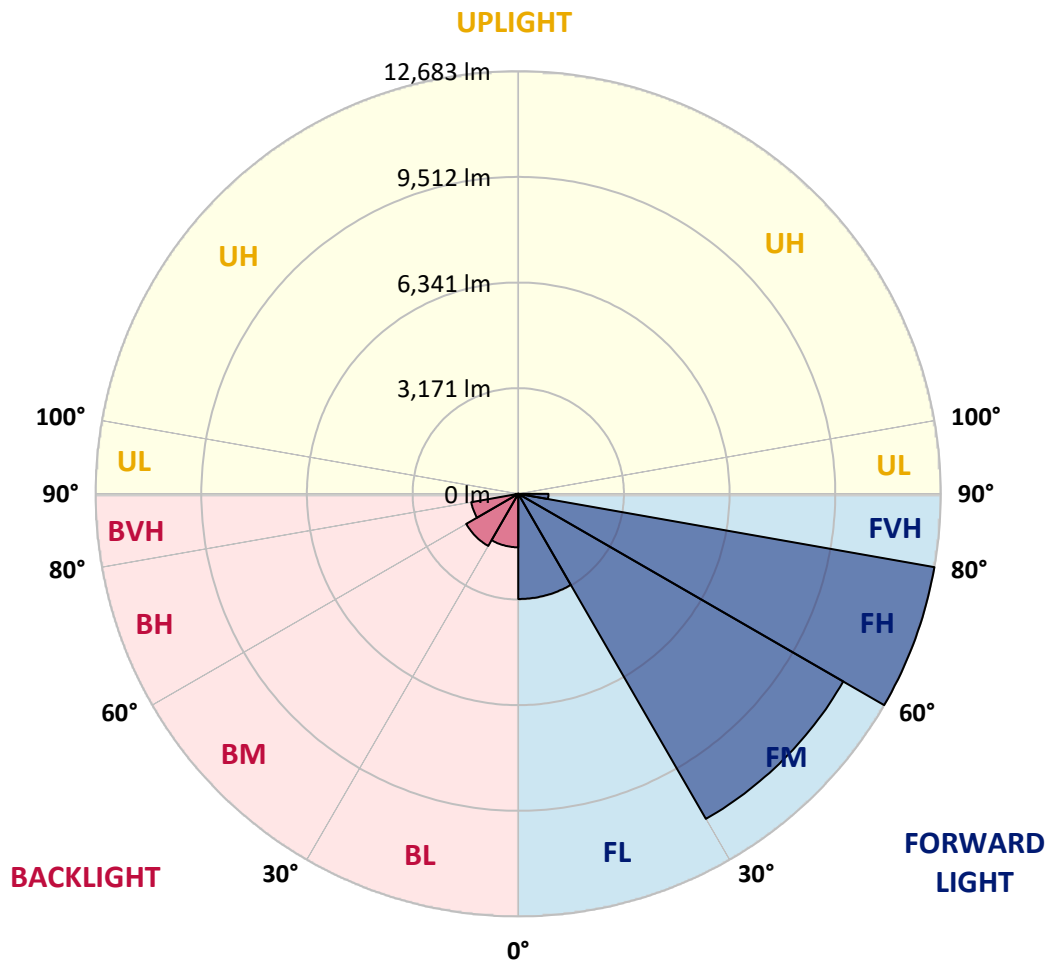


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.3	9.6			
FM (30°-60°)	11265.3	34.2			
FH (60°-80°)	12682.8	38.5			G5
FVH (80°-90°)	905.4	2.7			G5
BL (0°-30°)	1605.1	4.9	B3/2500		
BM (30°-60°)	1805.8	5.5	B2/2500		
BH (60°-80°)	1431.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	82.0	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°	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2
2.5°	9367.3	9354.6	9359.2	9350.0	9328.2	9306.4	9274.3	9280.1	9235.3	9168.8	9086.1
5°	9190.6	9186.0	9220.4	9239.9	9256.0	9243.3	9234.2	9245.6	9180.2	9088.5	8945.0
7.5°	8820.0	8769.5	8813.1	8878.5	8940.4	8987.5	9049.4	9057.4	9016.2	8919.8	8731.7
10°	8293.4	8245.2	8309.5	8411.6	8535.5	8647.9	8772.9	8795.9	8804.0	8716.8	8488.4
12.5°	7747.3	7710.6	7774.9	7918.2	8123.7	8296.8	8496.5	8530.9	8602.0	8543.5	8263.6
15°	7258.6	7244.8	7322.8	7463.9	7700.3	7965.3	8253.2	8316.4	8436.8	8417.3	8088.1
17.5°	6836.4	6833.0	6892.6	7040.6	7302.2	7637.2	8011.2	8117.9	8296.8	8319.8	7943.5
20°	6522.0	6515.2	6556.5	6665.5	6935.1	7314.8	7749.6	7896.4	8154.6	8234.9	7794.4
22.5°	6353.4	6352.3	6353.4	6405.0	6625.4	6978.7	7495.0	7673.9	8015.8	8167.3	7629.2
25°	6324.7	6321.3	6296.1	6290.4	6415.4	6697.6	7242.5	7439.9	7883.9	8120.2	7471.9
27.5°	6399.4	6403.9	6370.7	6316.7	6342.0	6512.9	7023.4	7234.5	7778.3	8111.0	7363.0
30°	6554.2	6551.9	6523.3	6467.0	6417.7	6444.1	6867.4	7078.5	7707.2	8151.1	7288.4
32.5°	6725.1	6737.8	6732.0	6701.0	6627.6	6522.0	6820.3	7026.8	7686.5	8247.5	7256.3
35°	6930.5	6944.2	6985.6	7009.6	6923.6	6753.8	6921.3	7100.3	7746.2	8428.8	7307.9
37.5°	7125.5	7161.1	7277.0	7379.1	7305.7	7116.4	7189.8	7317.1	7930.9	8714.4	7446.8
40°	7350.4	7381.4	7570.7	7787.5	7776.0	7579.8	7622.3	7707.2	8256.7	9124.0	7698.0
42.5°	7571.8	7633.8	7907.9	8215.4	8303.7	8130.5	8198.2	8242.9	8715.6	9666.7	8136.2
45°	7866.6	7933.2	8314.1	8684.6	8891.2	8793.6	8901.4	8918.6	9292.7	10405.5	8772.9
47.5°	8312.9	8388.6	8832.7	9221.5	9537.0	9547.3	9725.2	9718.3	10013.1	11251.0	9574.9
50°	9008.2	9117.1	9480.8	9844.5	10227.6	10441.1	10678.5	10645.3	10877.0	12151.6	10498.4
52.5°	9919.0	9969.5	10239.1	10507.6	10983.7	11462.1	11802.8	11773.0	11856.7	13077.4	11547.0
55°	10863.2	10901.1	11012.4	11159.2	11799.4	12579.5	13300.0	13252.9	13040.7	14038.8	12583.0
57.5°	11712.2	11789.0	11866.0	11926.7	12620.8	13747.4	14831.5	14835.0	14325.6	15075.9	13653.3
60°	11844.2	11911.8	12420.0	12899.6	14026.2	15305.3	16471.0	16436.5	15655.2	16201.4	14846.4
62.5°	10469.8	10622.3	11471.3	12747.0	15379.9	18155.1	18562.4	18519.9	17245.4	17588.4	16235.8
65°	7503.0	7676.2	8700.7	10617.7	14723.7	21295.1	22336.8	21765.4	19413.6	19294.3	17862.5
67.5°	4328.5	4369.8	4813.9	6353.4	11210.8	21459.1	28094.8	27295.2	22780.8	21229.7	18658.7
70°	3200.8	3199.7	3305.2	3909.8	6066.6	17513.7	30833.3	31550.3	26325.7	21866.4	17533.3
71°	2894.5	2898.0	3016.1	3558.7	4804.6	14659.5	30251.6	31821.0	27259.6	21552.1	16718.8
72.5°	2475.8	2487.2	2651.3	3191.7	4041.7	10109.5	27746.1	30196.6	27702.5	20776.6	15444.1
75°	1878.0	1904.5	2131.6	2690.3	3694.1	5127.1	20363.5	24112.7	24609.4	18332.9	11475.8
77.5°	1339.9	1369.8	1626.8	2262.4	3511.7	3863.9	13637.3	17588.4	18110.3	11748.9	5176.3
80°	846.7	882.3	1076.1	1800.0	3299.4	3668.9	8569.9	11822.4	9875.4	3759.5	1317.0
82.5°	496.8	524.3	667.7	1175.9	2694.9	3533.5	5042.1	6553.1	3843.3	1135.7	598.9
85°	287.9	300.6	416.5	749.2	1957.2	3335.0	3704.5	3663.1	1668.1	555.3	283.4
87.5°	134.2	149.1	246.7	391.2	1086.5	2417.3	2927.8	2529.7	1037.1	260.5	133.1
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°	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2	9125.2
2.5°	9046.0	9026.5	8945.0	8872.8	8797.1	8698.4	8589.4	8575.6	8509.1	8521.7	8498.8
5°	8867.0	8817.7	8621.6	8443.7	8233.8	8045.6	7841.4	7747.3	7612.0	7602.7	7568.4
7.5°	8611.2	8519.4	8215.4	7878.1	7540.8	7219.6	6901.8	6693.0	6479.7	6389.0	6380.9
10°	8323.2	8167.3	7719.8	7220.7	6734.3	6265.1	5810.8	5474.6	5171.8	5028.4	5022.6
12.5°	8050.2	7819.6	7205.8	6526.7	5861.3	5253.2	4630.3	4188.6	3808.8	3681.5	3627.5
15°	7818.5	7493.7	6705.7	5837.2	5029.5	4185.2	3476.2	3011.5	2660.4	2538.8	2515.9
17.5°	7593.6	7176.0	6192.8	5140.7	4164.5	3236.4	2526.3	2180.9	1993.9	1944.6	1943.4
20°	7369.8	6849.0	5657.0	4428.4	3328.1	2420.7	1942.3	1787.4	1724.3	1718.6	1709.4
22.5°	7116.4	6502.6	5093.8	3713.6	2597.3	1903.2	1650.9	1588.9	1580.9	1601.5	1601.5
25°	6878.8	6158.4	4522.4	3013.8	2020.2	1587.8	1474.2	1461.6	1483.4	1520.1	1523.5
27.5°	6657.4	5826.8	3964.9	2392.0	1618.8	1398.5	1351.5	1366.4	1405.3	1447.8	1448.9
30°	6475.0	5513.6	3423.3	1884.9	1367.5	1257.4	1249.4	1279.2	1321.6	1354.9	1362.9
32.5°	6334.0	5246.3	2900.2	1515.5	1203.5	1151.9	1158.8	1184.0	1210.4	1228.7	1241.3
35°	6268.6	5016.8	2417.3	1278.0	1099.0	1070.3	1079.6	1093.4	1104.8	1118.6	1128.8
37.5°	6280.0	4839.1	1985.9	1130.1	1029.1	1014.2	1014.2	1014.2	1014.2	1021.1	1022.2
40°	6386.7	4736.9	1634.8	1036.0	982.0	966.0	953.3	941.9	932.7	937.3	935.0
42.5°	6659.7	4727.8	1377.9	976.3	944.2	917.8	892.5	876.5	865.0	869.6	871.9
45°	7123.3	4842.5	1204.6	933.9	908.6	868.5	836.3	819.1	811.1	826.0	828.3
47.5°	7723.3	5092.6	1099.0	902.9	875.4	822.6	788.2	772.1	774.4	796.2	801.9
50°	8496.5	5498.7	1048.5	883.4	852.4	783.5	748.0	734.2	741.1	772.1	779.0
52.5°	9345.5	6083.8	1054.3	877.6	837.5	754.9	717.0	701.0	712.4	741.1	746.8
55°	10325.2	6787.1	1149.5	885.7	815.7	736.6	691.8	664.3	673.4	699.8	704.4
57.5°	11413.9	7592.5	1341.1	883.4	788.2	719.3	665.4	624.1	630.9	647.1	651.6
60°	12547.4	8565.3	1638.2	890.3	775.5	698.7	629.8	578.2	575.9	589.7	592.0
62.5°	13908.0	9690.7	1977.9	894.8	783.5	672.3	582.8	532.3	525.4	528.8	531.2
65°	15310.0	10505.2	1850.5	876.5	808.8	650.5	541.5	487.6	475.0	472.7	473.8
67.5°	15353.5	9632.2	1297.6	839.8	819.1	639.0	510.5	449.8	429.1	421.1	419.8
70°	13769.2	7825.4	1010.7	800.8	777.8	620.7	481.8	418.7	387.8	375.1	374.0
71°	12995.9	7203.6	957.9	781.3	746.8	602.3	469.2	404.9	372.9	359.1	356.8
72.5°	11783.3	6457.9	893.7	750.3	687.2	555.3	445.1	385.5	352.2	336.1	332.7
75°	8456.3	4223.0	767.5	668.9	569.0	442.9	390.0	346.4	317.8	298.3	296.0
77.5°	3258.2	1680.7	580.5	556.4	436.0	346.4	321.2	299.4	278.8	259.2	258.1
80°	1007.3	751.5	423.3	418.7	315.5	258.1	250.1	244.3	236.3	215.7	211.1
82.5°	538.1	431.4	291.4	270.7	206.5	172.1	181.3	183.5	184.7	162.9	160.6
85°	257.0	228.3	164.0	153.7	120.4	96.3	111.3	120.4	121.6	99.8	93.0
87.5°	122.8	119.3	76.9	58.5	44.7	32.1	39.0	48.2	52.8	37.8	33.3
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)