

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: P383364

Luminaire Tested: **GLEON-SA6D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35085.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

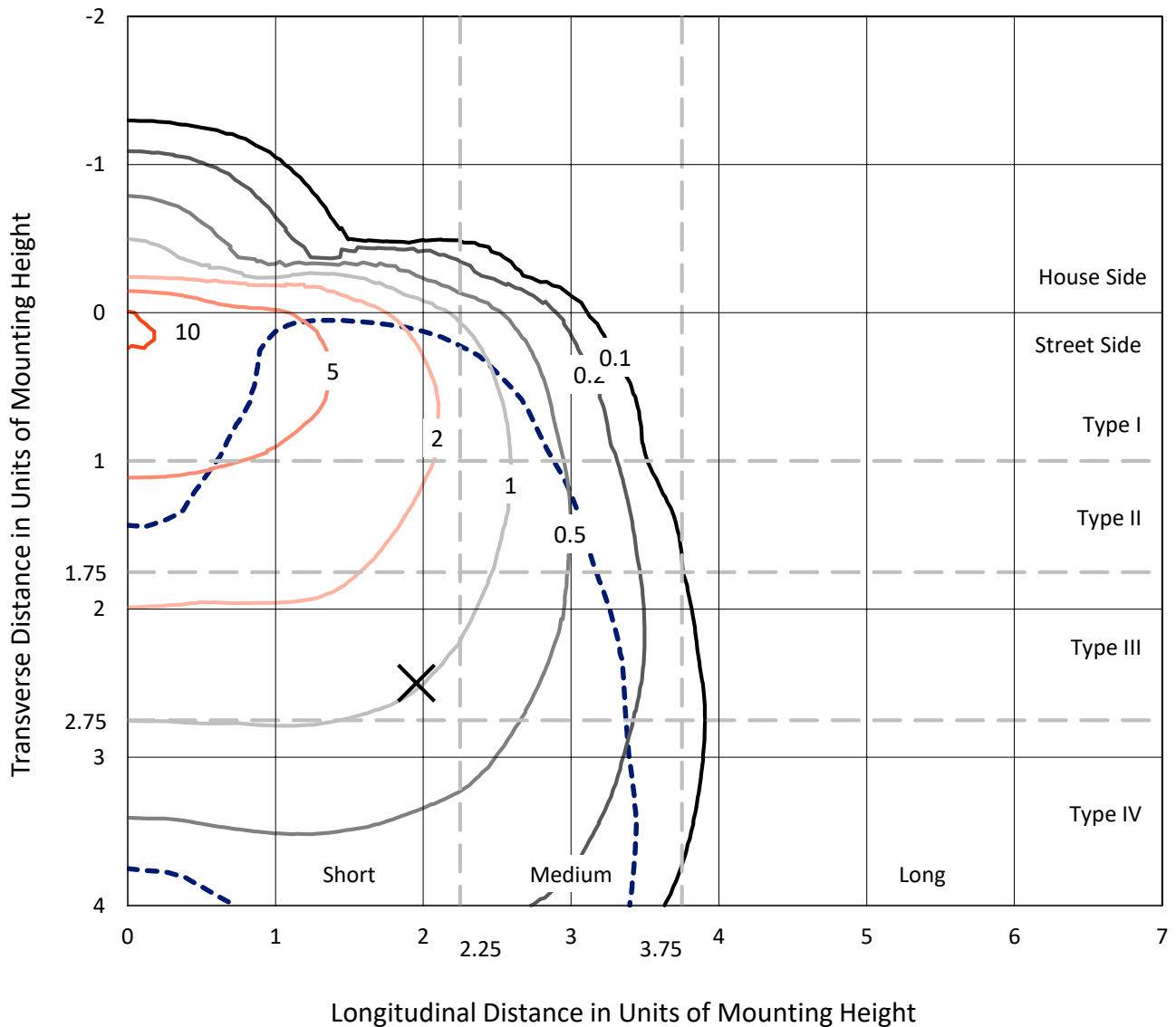
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383364
 CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

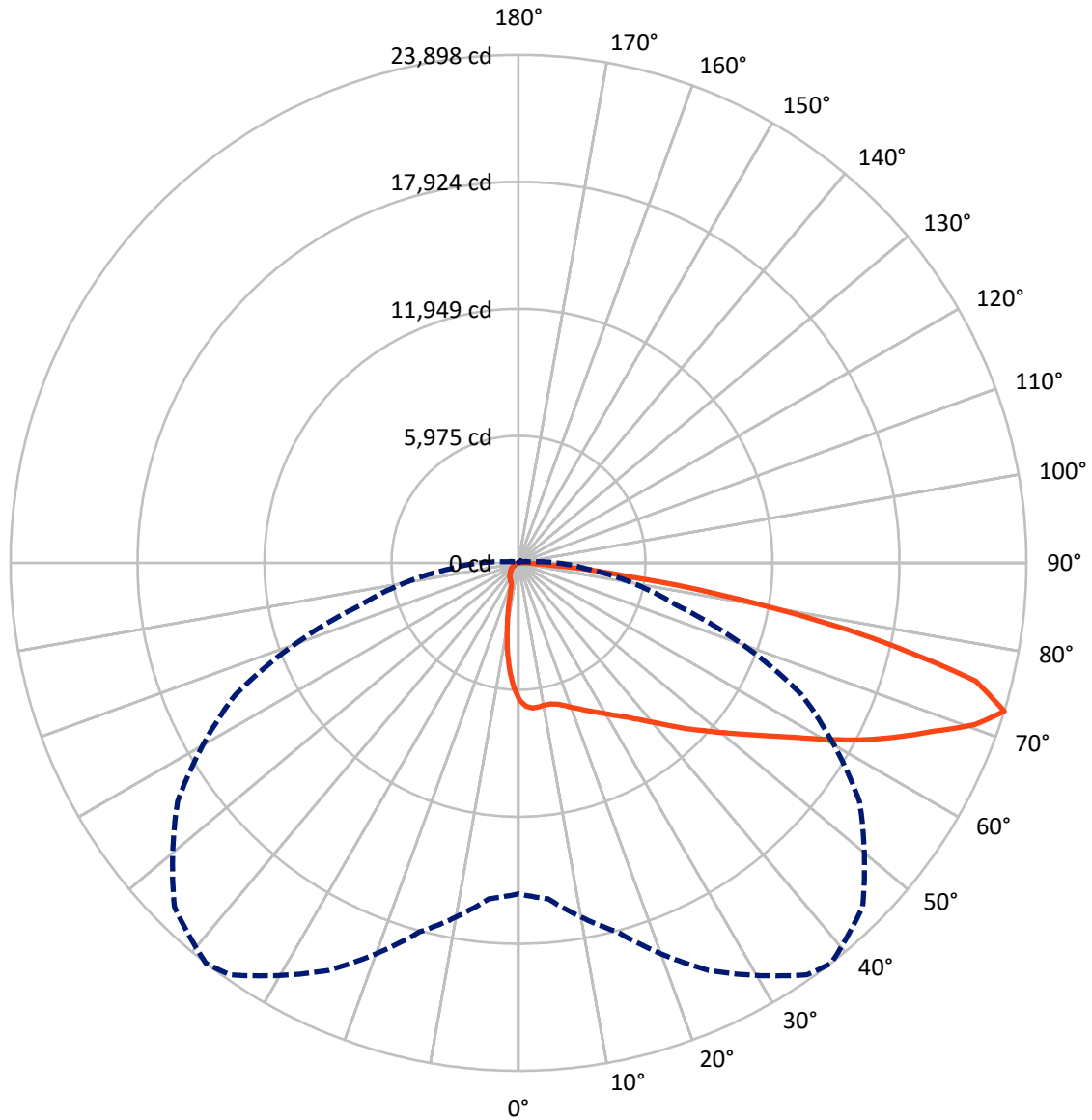
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P383364
CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P383364
 CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

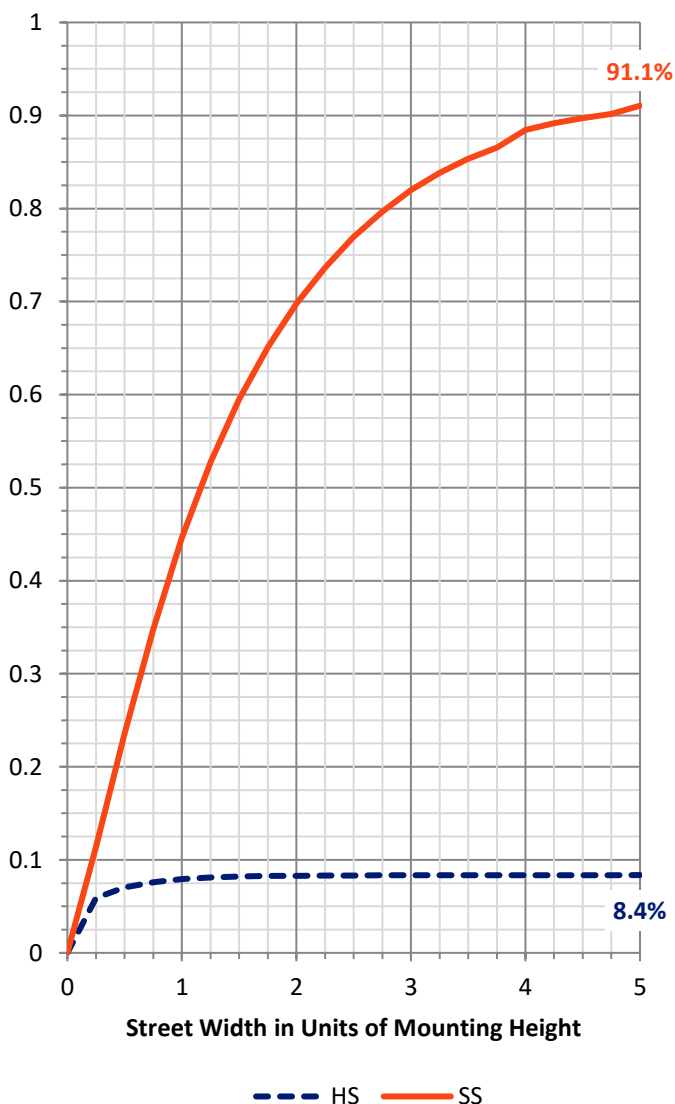
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2952.6	0.0	2952.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32133.2	0.0	32133.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	35085.8	0.0	35085.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	1.6
10°-20°	1344.5	3.8
20°-30°	2138.4	6.1
30°-40°	3214.9	9.2
40°-50°	4904.5	14.0
50°-60°	6931.7	19.8
60°-70°	8694.7	24.8
70°-80°	6501.2	18.5
80°-90°	806.1	2.3
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°	35085.8	100.0
0°-180°	35085.8	100.0

Coefficient of Utilization

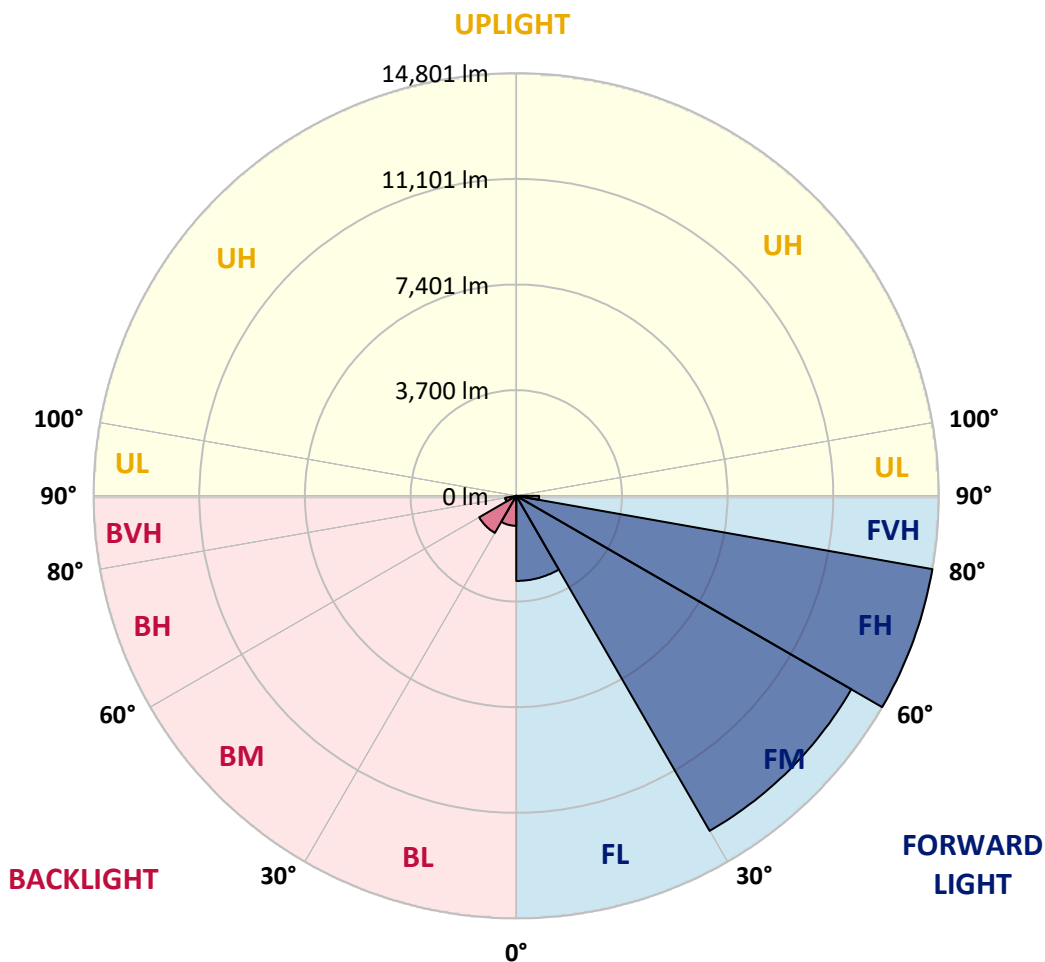


REPORT NUMBER: P383364
 CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.4	8.5			
FM (30°-60°)	13551.7	38.6			
FH (60°-80°)	14801.5	42.2			G5
FVH (80°-90°)	798.6	2.3			G5
BL (0°-30°)	1051.3	3.0	B3/2500		
BM (30°-60°)	1499.4	4.3	B2/2500		
BH (60°-80°)	394.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.5	0.0			G0/10
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





REPORT NUMBER: P383364
 CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6848.5	6849.9	6833.9	6807.7	6774.2	6756.7	6727.5	6681.0	6631.4	6542.5	6446.3
5°	6988.4	6988.4	6968.0	6933.0	6879.1	6863.1	6807.7	6733.4	6631.4	6487.1	6325.4
7.5°	6973.8	6976.7	6949.1	6912.6	6858.7	6844.2	6777.1	6694.0	6567.3	6392.5	6185.5
10°	6898.0	6905.4	6883.5	6866.0	6816.4	6800.4	6737.8	6654.7	6527.9	6341.4	6103.9
12.5°	6820.8	6828.1	6835.4	6851.4	6820.8	6815.0	6765.5	6695.5	6574.6	6380.7	6112.6
15°	6771.2	6785.9	6838.3	6901.0	6908.3	6902.4	6870.3	6804.8	6682.4	6481.3	6175.3
17.5°	6771.2	6794.6	6903.9	7023.4	7065.6	7070.0	7042.3	6950.5	6804.8	6589.1	6233.6
20°	6828.1	6860.2	7030.7	7199.7	7269.6	7269.6	7215.7	7087.5	6917.0	6686.7	6272.9
22.5°	6973.8	7016.0	7230.3	7425.6	7499.8	7483.8	7410.9	7224.4	7033.6	6797.5	6322.5
25°	7260.9	7292.9	7515.9	7712.6	7757.7	7721.3	7629.6	7390.5	7182.2	6947.6	6412.9
27.5°	7631.0	7635.3	7865.6	8031.7	8004.0	7979.3	7864.1	7598.9	7396.4	7161.8	6568.7
30°	8037.5	8037.5	8240.1	8366.8	8282.3	8261.9	8146.8	7851.0	7670.4	7453.2	6790.2
32.5°	8431.0	8448.4	8613.1	8693.2	8598.6	8578.2	8465.9	8170.1	8034.6	7897.7	7135.6
35°	8811.2	8824.4	8980.3	9024.0	8933.6	8939.5	8859.3	8608.7	8557.8	8540.2	7655.7
37.5°	9179.9	9182.8	9341.7	9369.3	9324.1	9373.7	9381.0	9159.5	9254.2	9395.6	8388.7
40°	9516.5	9519.4	9676.8	9748.2	9825.4	9889.5	9946.3	9828.3	10141.6	10469.5	9261.5
42.5°	9786.1	9816.6	10016.3	10151.8	10355.8	10478.2	10632.7	10626.8	11198.0	11690.5	10316.4
45°	10023.5	10076.1	10354.3	10591.9	10941.6	11136.8	11378.8	11568.1	12387.1	13050.1	11384.5
47.5°	10336.8	10386.4	10704.0	11093.1	11559.4	11815.8	12216.6	12626.0	13694.1	14384.8	12427.9
50°	10778.4	10756.5	11069.8	11627.9	12226.7	12563.3	13134.5	13748.0	14990.9	15547.5	13041.3
52.5°	11249.0	11240.3	11472.0	12209.2	13013.6	13407.0	14161.9	14907.8	16230.9	16348.9	13322.5
55°	11831.9	11769.3	11964.5	12872.3	13947.6	14370.2	15259.0	16056.1	17218.9	16800.6	13463.8
57.5°	12442.4	12339.0	12525.5	13611.0	15001.2	15501.0	16474.3	17175.1	17876.0	17109.6	13462.4
60°	13073.3	12950.9	13172.5	14534.8	16309.6	16888.1	17791.5	17931.5	18489.5	17265.5	13363.3
62.5°	13600.9	13527.9	13857.3	15522.8	17771.1	18339.4	18786.8	18619.2	19006.7	17386.5	13131.7
65°	14158.9	14163.2	14695.2	16675.4	19324.4	19707.6	19745.5	19511.0	19439.5	17361.7	12347.7
67.5°	14913.7	14983.7	15871.1	18240.4	20835.5	21131.3	21128.3	20477.0	19755.7	16376.7	10609.4
70°	15712.2	15876.8	17226.2	20031.2	22485.0	22785.1	22630.6	21091.9	18601.7	13242.4	7508.6
72.5°	15578.2	15863.8	17979.5	21160.4	23669.6	23898.4	22894.4	19580.9	14702.4	7696.5	3197.0
75°	12018.4	12349.2	16486.0	20041.3	22426.6	22221.2	19671.2	15237.2	8034.6	2147.8	719.8
77.5°	6348.7	6525.0	10890.5	15267.8	17487.0	17057.1	13857.3	8452.8	2449.4	531.8	323.5
80°	3325.2	3366.0	4745.9	8662.6	10792.9	10795.9	8212.3	3712.8	1009.8	272.5	217.1
82.5°	1780.7	1815.6	2507.7	4002.8	5655.1	5126.2	3144.4	2042.9	587.2	154.5	208.4
85°	428.4	435.7	1422.2	1828.7	2223.6	1588.3	934.1	1715.1	158.8	90.4	169.0
87.5°	164.7	167.6	527.4	791.3	566.8	367.2	437.2	639.7	20.4	34.9	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383364

CATALOG NUMBER: GLEON-SA6D-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6388.1	6350.2	6256.9	6138.9	6034.0	5958.2	5844.5	5770.2	5720.7	5719.2	5700.3
5°	6226.3	6149.1	5948.0	5709.0	5491.9	5296.7	5066.4	4884.3	4748.8	4727.0	4680.3
7.5°	6052.9	5926.1	5617.2	5244.2	4879.9	4509.8	4080.0	3813.3	3584.5	3475.2	3463.6
10°	5946.5	5768.8	5330.2	4791.0	4219.8	3618.0	3055.6	2666.6	2385.3	2305.2	2245.4
12.5°	5924.6	5690.1	5108.7	4365.5	3549.6	2753.9	2131.8	1718.0	1493.6	1422.2	1403.2
15°	5946.5	5653.7	4922.2	3944.5	2870.6	1954.0	1430.9	1190.5	1105.9	1085.5	1084.1
17.5°	5959.7	5610.0	4710.9	3476.7	2212.0	1395.9	1095.8	1025.8	1012.7	1011.3	1014.2
20°	5958.2	5542.9	4458.9	2955.1	1645.1	1097.2	990.9	976.3	973.4	974.9	973.4
22.5°	5948.0	5464.3	4182.0	2417.4	1243.0	980.6	945.7	937.0	935.5	935.5	935.5
25°	5966.9	5401.6	3877.4	1903.0	1024.3	926.7	904.9	897.5	896.1	896.1	893.3
27.5°	6035.4	5366.6	3543.7	1464.4	925.3	878.6	861.1	859.7	855.3	853.9	856.8
30°	6146.2	5366.6	3178.0	1139.5	865.5	829.1	816.0	813.1	811.7	810.2	811.7
32.5°	6341.4	5407.4	2778.7	947.1	808.7	773.7	765.0	769.4	765.0	765.0	765.0
35°	6694.0	5529.8	2360.5	826.2	749.0	719.8	711.1	716.9	714.0	714.0	712.5
37.5°	7208.4	5757.2	1939.5	753.3	696.5	665.9	654.2	663.0	660.1	660.1	658.6
40°	7835.0	6087.8	1538.7	698.0	645.5	613.4	603.3	607.6	600.4	600.4	603.3
42.5°	8608.7	6507.5	1189.0	644.1	594.5	563.9	558.1	553.7	540.6	533.3	534.8
45°	9468.4	6944.7	926.7	591.6	546.4	521.7	512.9	501.3	479.4	464.8	466.2
47.5°	10236.3	7281.3	753.3	540.6	502.7	483.8	470.6	448.8	416.8	399.3	400.8
50°	10640.0	7332.3	641.1	489.6	462.0	443.0	424.0	390.5	352.6	333.7	332.2
52.5°	10743.4	7093.3	558.1	443.0	421.2	399.3	374.5	329.3	287.0	266.6	263.7
55°	10781.3	6729.0	483.8	399.3	377.4	352.6	320.5	269.6	230.2	209.8	208.4
57.5°	10656.0	6185.5	425.4	359.9	333.7	303.1	263.7	215.7	177.7	161.7	161.7
60°	10377.6	5449.6	380.4	317.7	288.5	253.6	212.8	167.6	132.6	119.5	119.5
62.5°	9822.5	4496.7	338.1	274.0	246.3	209.8	172.0	126.8	93.2	86.0	87.5
65°	8774.8	3411.1	295.8	234.6	209.8	173.4	134.0	90.4	62.7	62.7	65.6
67.5°	7156.0	2369.3	252.1	199.6	180.7	141.3	102.0	62.7	43.7	49.6	55.3
70°	4737.1	1328.9	215.7	164.7	154.5	112.2	75.7	42.3	34.9	46.7	56.8
72.5°	1787.9	517.3	180.7	132.6	134.0	86.0	53.9	32.0	32.0	51.0	67.1
75°	498.4	253.6	129.7	97.6	104.9	62.7	39.3	27.7	30.6	58.3	78.7
77.5°	292.9	186.5	84.5	56.8	71.4	43.7	26.3	21.9	26.3	49.6	75.7
80°	236.1	99.1	49.6	29.2	39.3	24.8	17.5	13.1	7.3	18.9	39.3
82.5°	236.1	59.7	23.3	20.4	20.4	13.1	8.8	5.9	1.5	0.0	10.2
85°	158.8	24.8	14.5	13.1	10.2	4.4	2.9	1.5	0.0	0.0	0.0
87.5°	26.3	10.2	5.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)