

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: P383361

Luminaire Tested: **GLEON-SA6D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383361
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-SA6D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA 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: 42350 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

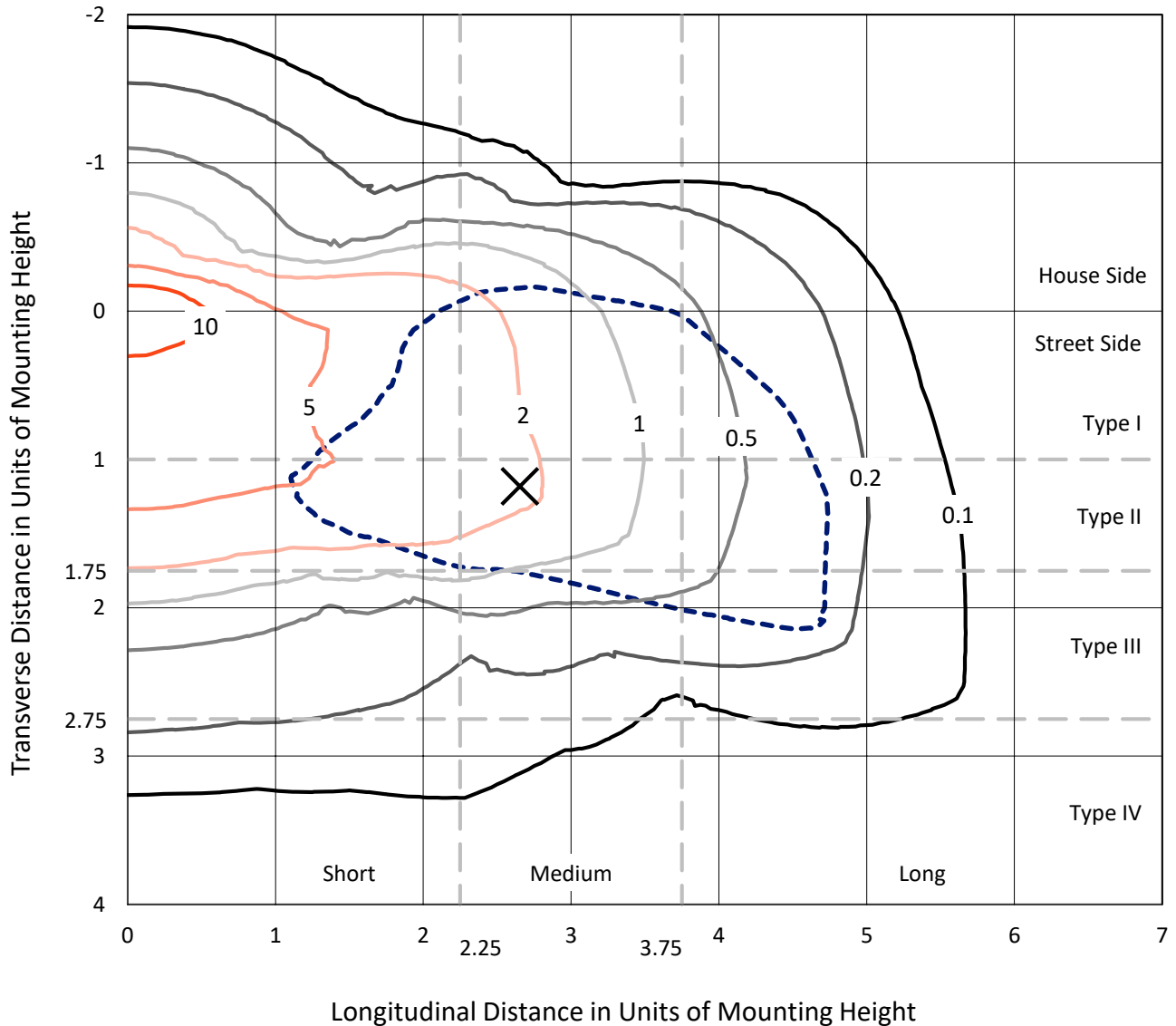
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

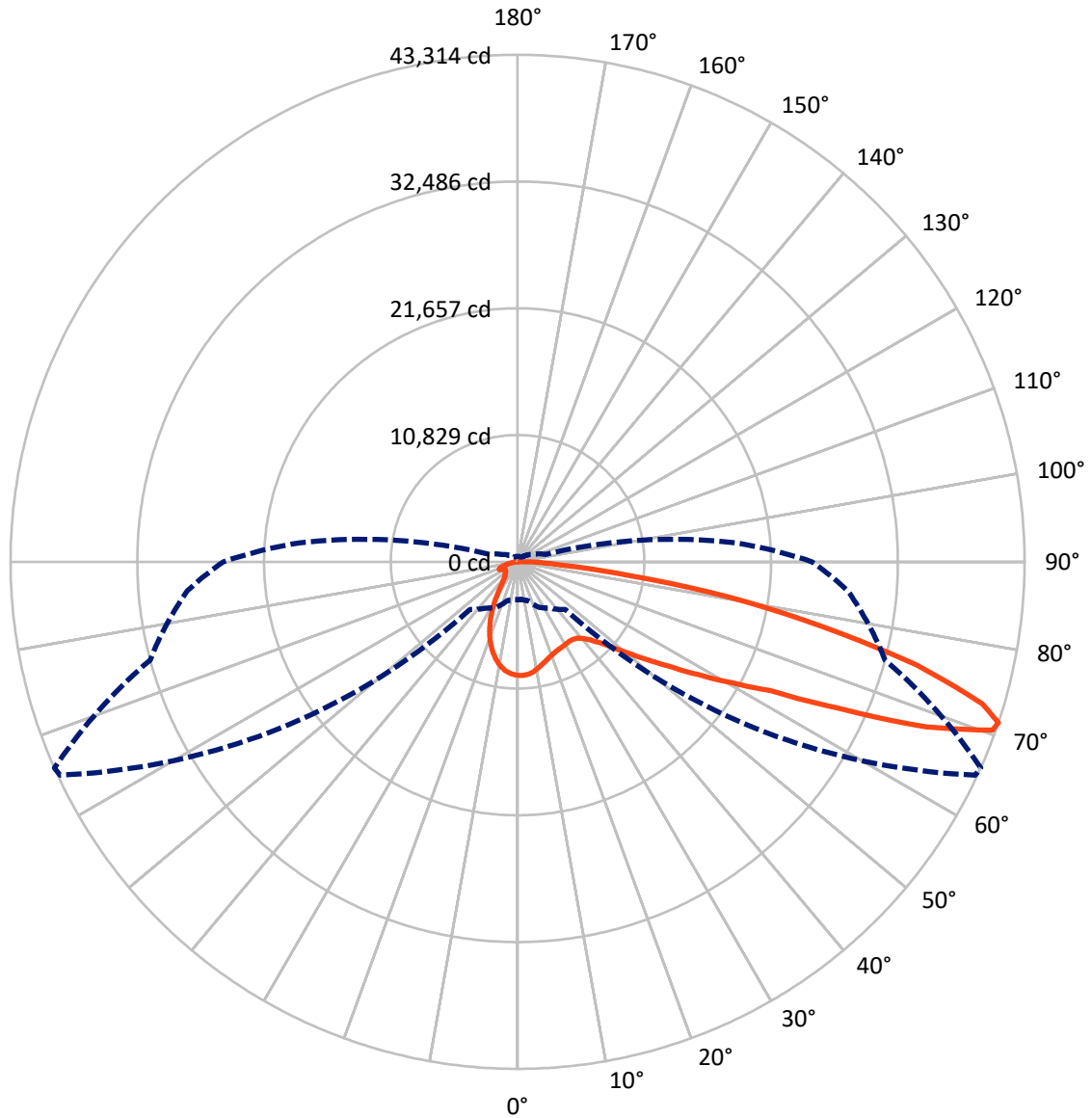
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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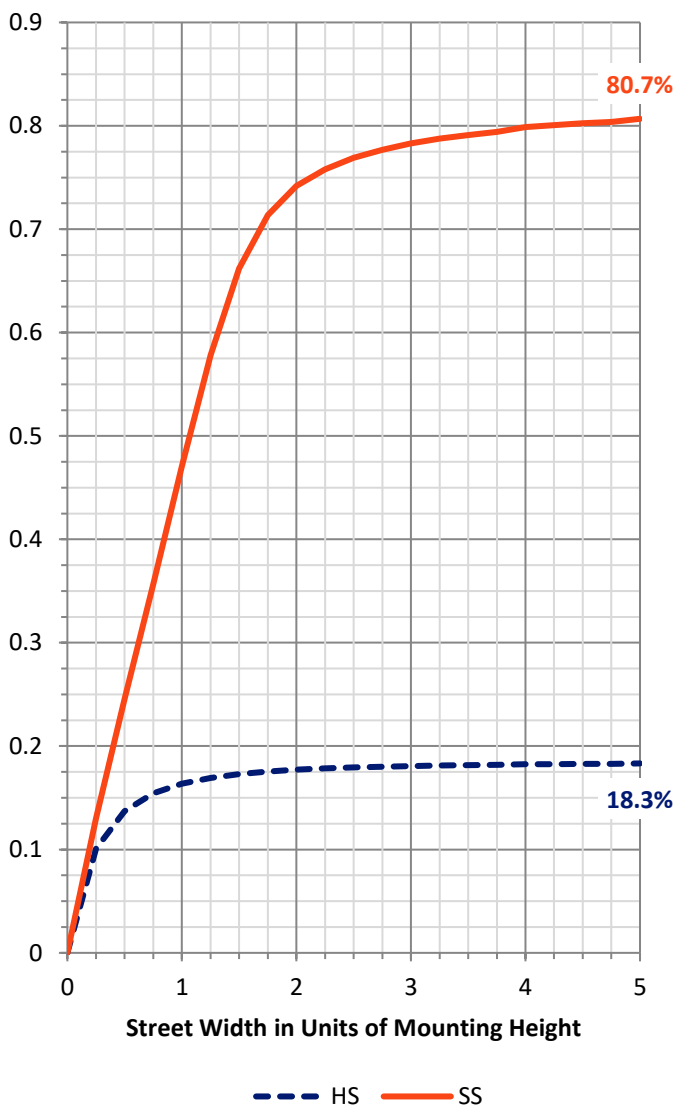
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7848.6	0.0	7848.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	34501.4	0.0	34501.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	42350.0	0.0	42350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.0	2.0
10°-20°	2048.2	4.8
20°-30°	2751.2	6.5
30°-40°	3619.2	8.5
40°-50°	5265.0	12.4
50°-60°	8224.5	19.4
60°-70°	10302.5	24.3
70°-80°	7858.5	18.6
80°-90°	1427.0	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°	42350.0	100.0
0°-180°	42350.0	100.0

Coefficient of Utilization

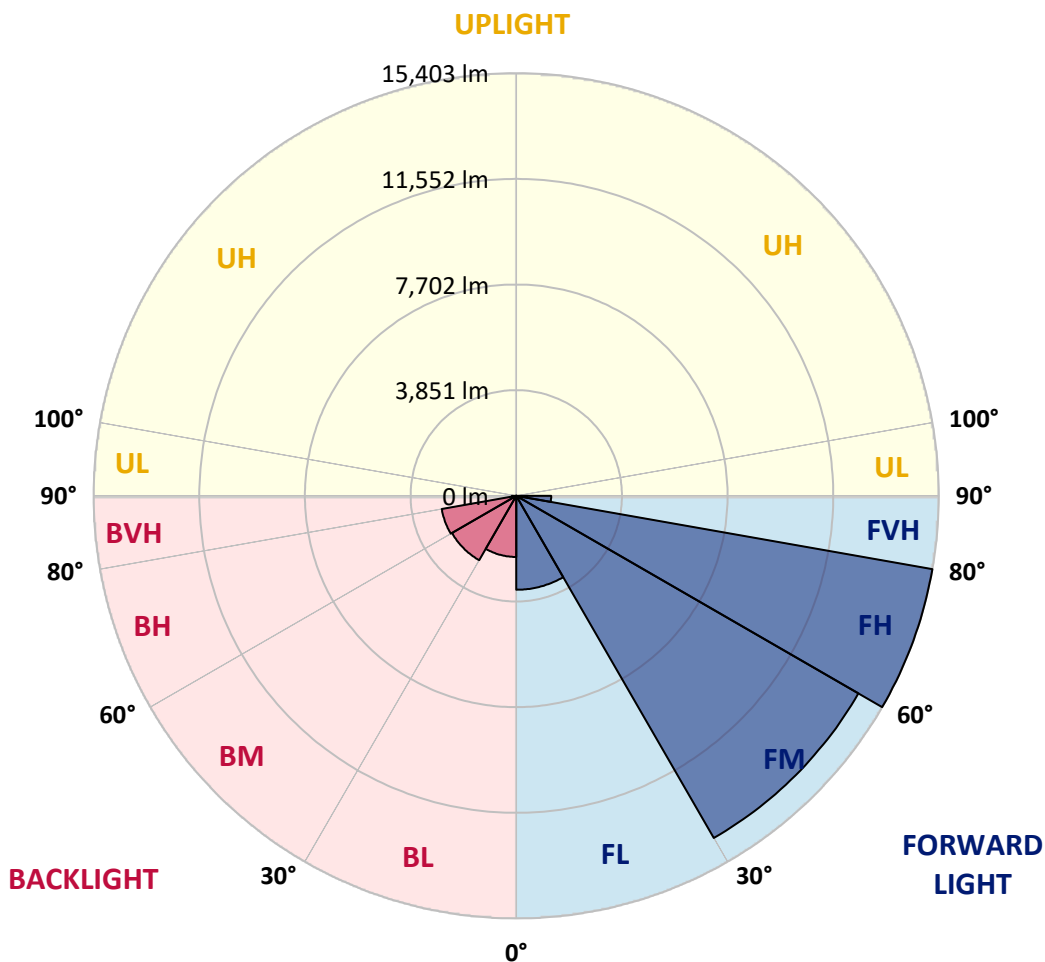


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3424.6	8.1			
FM (30°-60°)	14401.1	34.0			
FH (60°-80°)	15403.1	36.4			G5
FVH (80°-90°)	1272.5	3.0			G5
BL (0°-30°)	2228.8	5.3	B3/2500		
BM (30°-60°)	2707.5	6.4	B3/5000		
BH (60°-80°)	2757.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	154.5	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°	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6
2.5°	9521.7	9507.1	9551.0	9596.3	9613.9	9643.1	9687.0	9711.8	9710.4	9714.7	9700.1
5°	8890.0	8871.0	8958.8	9030.4	9167.9	9322.8	9511.5	9646.0	9649.0	9725.0	9745.5
7.5°	8292.0	8278.8	8379.7	8495.2	8654.6	8891.5	9197.1	9486.6	9504.2	9710.4	9782.0
10°	7812.4	7809.5	7907.4	8033.2	8219.0	8483.6	8834.5	9258.6	9284.8	9640.1	9787.9
12.5°	7438.1	7444.0	7528.8	7672.0	7868.0	8144.3	8524.5	9002.7	9045.0	9529.0	9754.2
15°	7161.7	7185.1	7253.9	7398.6	7591.6	7872.4	8262.8	8765.8	8830.1	9404.7	9735.2
17.5°	7003.8	7030.2	7078.5	7198.3	7379.6	7650.1	8020.1	8571.3	8629.8	9309.7	9736.6
20°	6957.1	6979.0	7006.7	7079.9	7233.4	7479.0	7828.5	8395.9	8458.7	9233.7	9751.3
22.5°	7049.2	7065.2	7068.2	7062.3	7155.9	7356.2	7689.6	8267.2	8334.5	9183.9	9761.5
25°	7246.6	7268.5	7252.4	7198.3	7167.6	7290.5	7617.9	8182.3	8249.6	9147.4	9741.0
27.5°	7543.4	7546.3	7533.1	7463.0	7318.2	7297.7	7596.0	8132.7	8197.0	9105.0	9698.6
30°	7946.9	7965.9	7942.6	7847.5	7610.7	7414.7	7622.4	8084.4	8142.8	9050.9	9630.0
32.5°	8419.2	8466.0	8464.6	8365.1	8025.9	7676.4	7730.5	8055.2	8100.5	8993.9	9546.6
35°	8909.0	8973.4	9093.3	9050.9	8631.3	8090.2	7938.2	8101.9	8132.7	8986.5	9488.1
37.5°	9417.9	9482.2	9729.4	9843.4	9352.1	8682.4	8265.7	8267.2	8281.8	9075.8	9483.7
40°	9950.1	10018.9	10390.3	10687.1	10286.4	9432.6	8793.5	8612.3	8596.1	9295.1	9570.0
42.5°	10695.8	10757.2	11203.3	11581.9	11323.1	10393.2	9523.2	9144.4	9110.8	9725.0	9846.4
45°	11638.9	11691.6	12165.4	12570.4	12437.3	11489.8	10439.9	9877.0	9871.1	10441.4	10406.3
47.5°	12760.4	12801.4	13226.9	13618.8	13667.0	12751.7	11592.2	11007.3	10912.2	11424.0	11273.4
50°	13928.8	13974.1	14263.6	14684.6	15042.9	14440.5	13074.8	12392.0	12264.8	12720.9	12501.6
52.5°	14702.2	14762.1	15013.7	15547.3	16589.9	16291.6	14828.0	14070.6	13877.5	14292.8	14124.7
55°	14357.2	14491.7	14876.3	15731.6	17826.9	19119.5	16990.5	16028.4	15810.6	16155.6	16056.2
57.5°	12788.2	12972.5	13497.4	14817.8	18000.9	21611.1	20259.9	18334.3	18180.7	18081.3	18126.6
60°	9920.9	10097.8	10748.5	12469.5	16788.7	23430.0	25180.2	21176.8	20954.5	20014.3	20055.3
62.5°	7021.4	6932.2	7378.1	8637.1	13642.1	23643.4	30778.9	24978.4	24247.3	22055.5	21875.7
65°	5354.5	5334.0	5534.3	5935.0	8262.8	21089.0	34114.1	31368.2	30226.2	24456.5	24032.4
67.5°	4399.7	4363.2	4560.6	5143.9	5320.9	13605.6	34187.2	38781.4	37660.0	27445.2	26526.8
70°	3617.5	3576.5	3760.8	4513.7	4917.3	6900.1	28772.8	43122.6	43062.7	31229.3	28410.2
71°	3243.1	3213.8	3434.6	4271.1	4831.0	5750.7	24842.4	43134.3	43314.2	32510.1	28299.0
72.5°	2640.7	2650.9	2884.9	3801.6	4766.7	5078.1	18258.2	41123.8	41504.0	33731.1	27288.7
75°	1754.7	1763.4	2070.5	2924.4	4622.0	4968.5	10034.9	34507.5	35206.4	33000.0	24900.9
77.5°	1178.5	1175.6	1384.7	2006.1	4026.8	4968.5	5883.8	25809.0	26576.6	26257.8	19197.0
80°	811.5	805.7	953.3	1384.7	3048.7	5028.4	4548.8	18087.2	18319.6	14180.2	7802.2
82.5°	497.2	501.5	622.9	978.2	2074.8	4525.5	4294.4	9862.4	9609.5	3977.1	1949.1
85°	285.1	283.7	397.7	662.3	1332.0	3819.3	4187.7	4244.7	3893.8	1197.5	704.8
87.5°	102.4	109.6	213.5	367.0	763.2	2659.7	3553.1	2207.9	1990.1	541.0	318.8
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°	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6	9701.6
2.5°	9689.9	9698.6	9688.4	9630.0	9580.2	9499.8	9454.5	9391.6	9372.6	9363.8	9387.2
5°	9726.4	9729.4	9643.1	9489.6	9317.1	9113.8	8967.5	8787.7	8702.9	8666.4	8689.8
7.5°	9760.0	9746.9	9558.2	9264.3	8945.7	8591.8	8277.4	7989.3	7821.2	7752.5	7758.3
10°	9764.5	9708.9	9406.2	8951.4	8457.2	7938.2	7455.6	7011.2	6730.4	6547.7	6603.2
12.5°	9719.1	9625.5	9182.5	8546.5	7860.7	7153.0	6500.9	5834.1	5433.4	5247.8	5253.6
15°	9684.0	9514.5	8907.6	8069.8	7148.6	6211.4	5320.9	4537.1	4110.2	3920.1	3830.9
17.5°	9654.7	9394.5	8588.9	7533.1	6307.9	5119.1	4048.8	3349.8	3115.9	3060.3	3036.9
20°	9613.9	9267.3	8233.6	6911.7	5350.2	3896.8	2956.5	2611.5	2612.9	2677.3	2686.0
22.5°	9556.8	9122.6	7854.8	6214.3	4322.2	2838.1	2317.6	2218.1	2319.0	2441.9	2463.8
25°	9472.0	8951.4	7433.7	5443.7	3295.7	2181.6	1979.8	1975.4	2098.2	2226.9	2245.9
27.5°	9352.1	8727.8	6965.8	4616.1	2428.6	1854.1	1773.7	1804.3	1895.0	1988.6	1995.8
30°	9191.3	8467.5	6449.7	3743.1	1903.8	1650.8	1642.0	1669.8	1725.4	1791.2	1797.0
32.5°	9014.3	8202.8	5898.5	2898.0	1630.3	1541.2	1549.9	1563.0	1589.4	1615.7	1621.5
35°	8853.5	7932.3	5334.0	2202.1	1500.2	1469.5	1463.6	1460.8	1463.6	1454.9	1456.3
37.5°	8749.7	7708.6	4746.2	1753.2	1425.6	1406.6	1389.0	1367.1	1342.3	1327.6	1330.6
40°	8711.6	7541.9	4151.2	1514.8	1364.3	1351.0	1317.4	1270.6	1241.4	1232.6	1232.6
42.5°	8814.0	7455.6	3576.5	1394.9	1313.0	1291.1	1235.5	1181.5	1159.5	1158.0	1156.6
45°	9126.9	7490.8	3029.7	1329.1	1266.3	1223.9	1150.7	1105.4	1090.7	1093.7	1092.2
47.5°	9688.4	7711.5	2561.8	1285.3	1219.5	1163.9	1082.0	1045.5	1027.9	1027.9	1029.4
50°	10643.2	8227.7	2188.9	1248.7	1180.0	1108.4	1032.3	987.0	963.6	962.1	962.1
52.5°	12033.7	9151.8	1956.4	1218.0	1136.1	1058.6	982.6	925.6	897.7	892.0	889.0
55°	13776.7	10476.6	1892.1	1197.5	1077.6	1004.5	922.6	865.6	834.9	821.7	820.3
57.5°	15725.7	12087.9	2019.3	1172.6	1017.7	940.2	856.8	802.7	770.6	754.5	753.1
60°	17698.2	13846.9	2538.4	1137.6	968.0	870.0	789.6	739.8	707.7	690.2	687.2
62.5°	19673.6	15700.9	3598.4	1134.6	932.9	802.7	720.8	678.4	647.7	628.7	624.3
65°	21902.0	17730.4	4803.2	1212.1	921.2	741.3	650.7	617.1	590.7	573.2	571.7
67.5°	24460.9	20021.7	4687.7	1371.5	960.6	685.8	584.9	558.6	539.6	524.9	523.4
70°	25661.2	19663.4	2914.2	1484.1	1016.2	631.7	522.0	503.0	488.4	478.2	473.8
71°	25158.3	18670.5	2443.3	1470.9	1010.4	608.3	497.2	482.5	467.9	459.2	454.8
72.5°	23786.8	17027.1	2038.3	1368.6	944.6	565.8	464.9	450.3	437.2	426.9	424.0
75°	21344.9	15206.7	1631.8	1093.7	753.1	478.2	407.9	391.9	381.7	375.8	369.9
77.5°	15690.6	10852.3	1261.9	864.1	554.2	390.4	348.0	336.3	326.0	317.3	312.9
80°	6011.0	4203.8	849.6	644.8	406.5	308.5	280.8	274.9	264.7	258.8	258.8
82.5°	1618.7	1256.0	453.3	390.4	272.0	225.2	214.9	212.0	203.3	191.5	193.0
85°	655.1	554.2	254.4	214.9	166.7	133.0	144.8	146.3	136.0	121.4	122.8
87.5°	288.0	235.4	141.9	95.0	73.1	51.1	65.8	65.8	60.0	49.7	45.4
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)