

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: P318540

Luminaire Tested: **GLEON-SA6D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34122 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

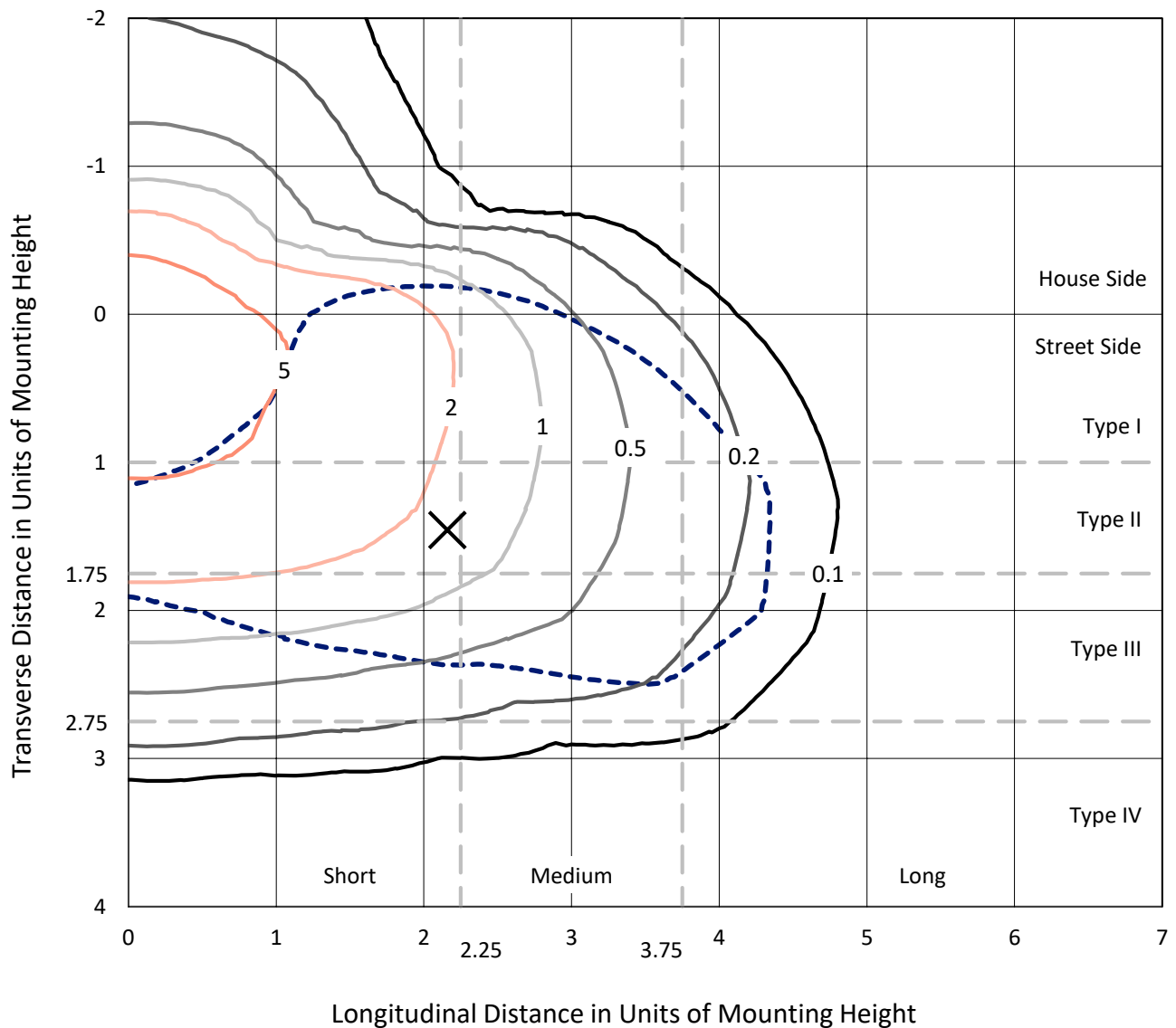
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318540
 CATALOG NUMBER: GLEON-SA6D-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

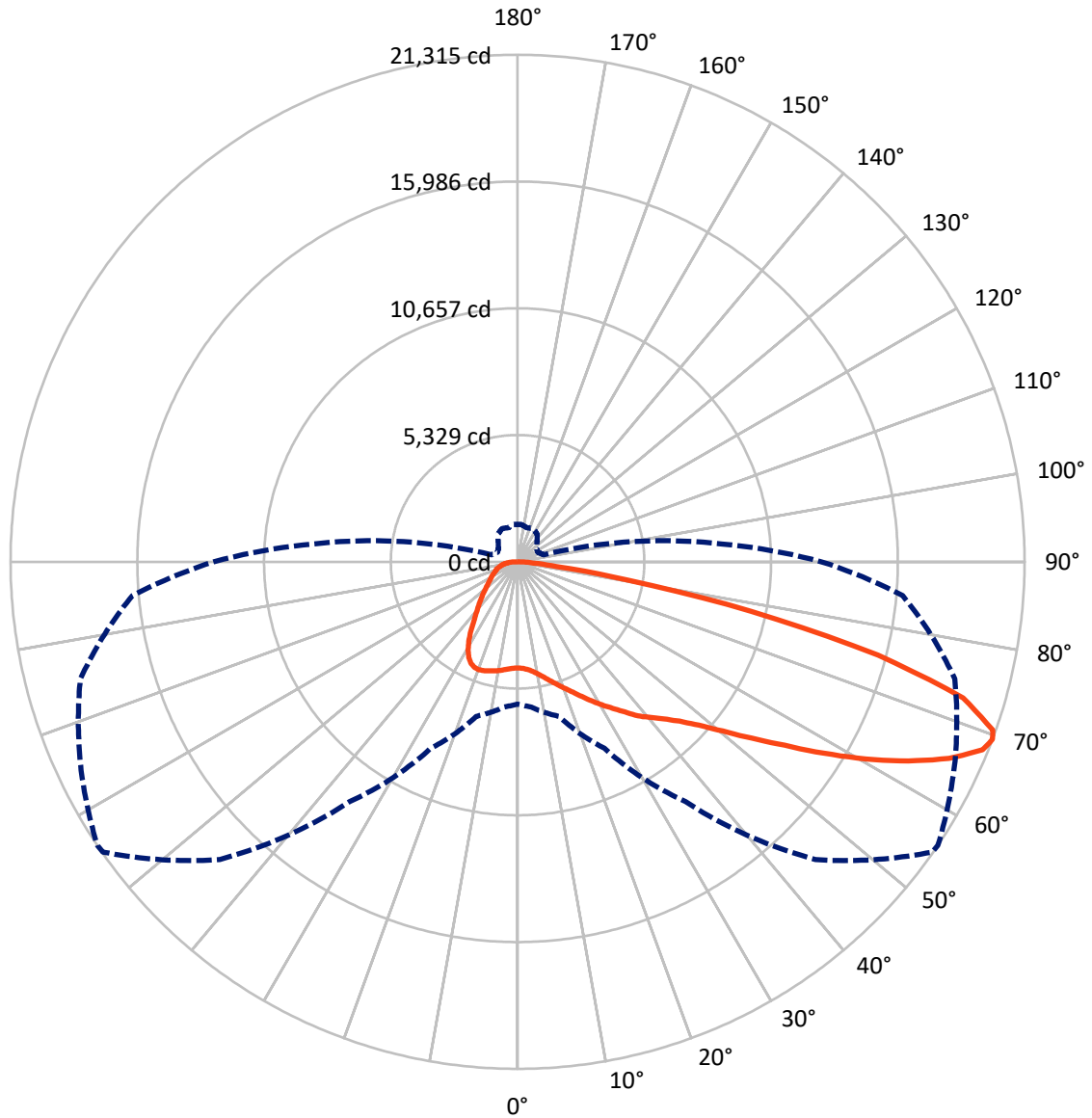
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

REPORT NUMBER: P318540
CATALOG NUMBER: GLEON-SA6D-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P318540
 CATALOG NUMBER: GLEON-SA6D-827-U-T3

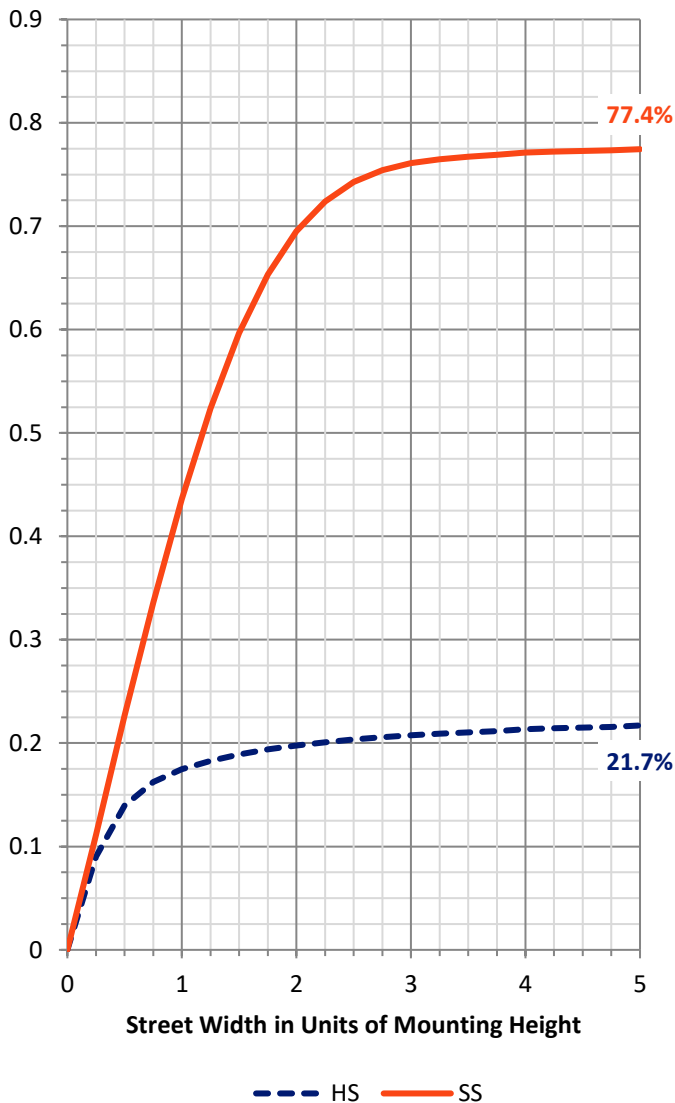
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7598.9	0.0	7598.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26523.1	0.0	26523.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	34122.0	0.0	34122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.1	1.3
10°-20°	1408.9	4.1
20°-30°	2459.3	7.2
30°-40°	3532.8	10.4
40°-50°	4889.1	14.3
50°-60°	7163.3	21.0
60°-70°	8733.4	25.6
70°-80°	4828.4	14.2
80°-90°	668.7	2.0
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°	34122.0	100.0
0°-180°	34122.0	100.0

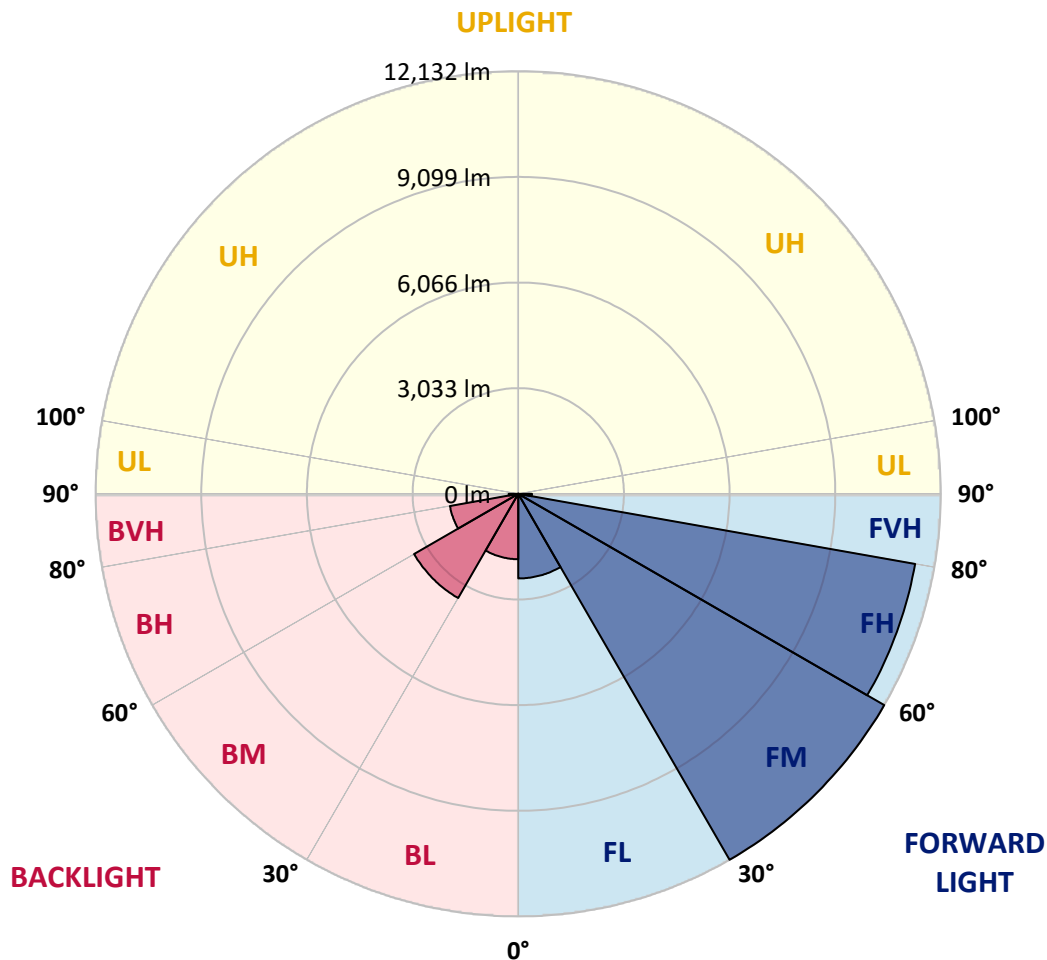


REPORT NUMBER: P318540
 CATALOG NUMBER: GLEON-SA6D-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.5	7.1			
FM (30°-60°)	12131.6	35.6			
FH (60°-80°)	11569.1	33.9			G4/12000
FVH (80°-90°)	393.9	1.2			G3/500
BL (0°-30°)	1877.9	5.5	B3/2500		
BM (30°-60°)	3453.5	10.1	B3/5000		
BH (60°-80°)	1992.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	274.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P318540

CATALOG NUMBER: GLEON-SA6D-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9
2.5°	4489.1	4493.9	4490.3	4499.7	4489.1	4496.2	4490.3	4490.3	4486.8	4476.2	4464.5
5°	4559.7	4569.1	4563.2	4572.6	4559.7	4562.0	4551.4	4551.4	4540.9	4518.5	4495.0
7.5°	4670.2	4680.8	4676.1	4685.5	4667.8	4667.8	4653.7	4652.5	4631.4	4594.9	4567.9
10°	4801.8	4815.9	4811.2	4825.3	4811.2	4815.9	4801.8	4801.8	4773.6	4721.9	4687.8
12.5°	4993.4	5011.1	4998.1	4997.0	4991.1	5000.5	4988.7	4986.4	4960.5	4890.0	4843.0
15°	5249.7	5268.5	5241.5	5239.1	5206.2	5202.7	5202.7	5199.1	5182.7	5098.0	5020.5
17.5°	5544.7	5550.6	5527.1	5489.5	5447.2	5420.1	5416.6	5426.0	5426.0	5327.3	5203.8
20°	5833.9	5844.5	5825.7	5783.4	5729.3	5689.3	5661.1	5679.9	5678.7	5561.2	5386.0
22.5°	6148.9	6173.6	6145.4	6091.3	6027.8	5983.2	5933.8	5950.3	5951.4	5806.9	5564.7
25°	6556.8	6534.5	6516.8	6440.4	6349.9	6304.1	6258.2	6274.7	6270.0	6071.3	5749.3
27.5°	6917.7	6922.4	6898.9	6817.8	6713.2	6612.1	6609.7	6620.3	6602.7	6346.4	5923.2
30°	7337.3	7339.7	7306.8	7233.9	7119.9	6989.4	6958.8	6976.5	6938.8	6607.4	6106.6
32.5°	7754.6	7766.4	7729.9	7641.8	7550.1	7391.4	7330.3	7342.0	7248.0	6874.2	6295.9
35°	8120.2	8136.7	8124.9	8066.1	7966.2	7829.9	7757.0	7749.9	7633.6	7201.0	6546.2
37.5°	8492.8	8508.1	8495.2	8445.8	8405.8	8261.3	8222.5	8222.5	8020.3	7534.8	6864.8
40°	8876.0	8899.5	8884.3	8816.1	8782.0	8716.2	8623.3	8601.0	8382.3	7935.6	7384.4
42.5°	9232.2	9262.8	9323.9	9283.9	9214.6	9224.0	9037.1	9025.3	8865.5	8528.1	8036.7
45°	9737.7	9782.3	9885.8	9855.2	9841.1	9789.4	9567.2	9556.6	9495.5	9325.1	8846.6
47.5°	10289.0	10350.1	10537.0	10542.9	10694.5	10596.9	10294.8	10258.4	10272.5	10279.6	9835.2
50°	10796.8	10863.8	11170.6	11315.1	11672.5	11693.7	11210.5	11177.6	11232.9	11395.1	10987.2
52.5°	11202.3	11286.9	11670.1	12116.8	12729.2	12903.2	12337.8	12313.1	12354.3	12634.0	12289.6
55°	11499.7	11591.4	12008.7	12822.1	13800.1	14106.9	13635.5	13612.0	13637.9	13994.1	13706.1
57.5°	11569.1	11591.4	12196.8	13297.0	14704.1	15441.1	15223.6	15176.6	15049.6	15360.0	15269.5
60°	11243.4	11332.8	12041.6	13463.9	15403.5	16756.4	16883.4	16824.6	16468.4	16722.3	16649.5
62.5°	10582.8	10742.7	11462.1	13210.0	15677.3	17830.8	18511.4	18440.9	17827.3	17991.9	17641.6
65°	9503.7	9571.9	10327.7	12334.3	15329.4	18518.5	19963.1	19927.9	19155.6	18898.2	17824.9
67.5°	7573.6	7701.7	8343.5	10504.1	13905.9	18437.4	21085.7	21082.2	20023.1	19234.3	17174.9
69°	5983.2	6116.0	6727.3	8652.7	12304.9	17695.6	21273.8	21314.9	20267.6	19029.8	16246.3
70°	4770.1	4924.1	5343.7	7288.0	10883.7	16717.6	21117.5	21191.5	20220.6	18692.4	15389.4
72.5°	2030.0	2154.7	2453.2	3756.8	6633.2	12483.6	19308.4	19588.2	19130.9	17107.9	12718.7
75°	886.3	925.1	1060.3	1531.6	2944.6	6794.3	15126.0	15643.3	16357.9	14460.7	9474.4
77.5°	648.9	665.3	739.4	899.2	1321.2	2566.1	9727.1	10028.0	11797.1	10522.9	5811.6
80°	501.9	513.7	571.3	660.6	862.8	1037.9	4436.3	4694.9	6633.2	5404.8	2420.3
82.5°	399.7	407.9	447.9	486.6	596.0	628.9	1472.9	1633.9	2448.5	1492.9	640.6
85°	371.5	380.9	395.0	355.0	382.0	369.1	637.1	666.5	739.4	586.6	268.0
87.5°	168.1	198.7	391.4	276.2	203.4	162.2	261.0	272.7	306.8	308.0	118.7
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: P318540
 CATALOG NUMBER: GLEON-SA6D-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9	4460.9
2.5°	4471.5	4468.0	4473.9	4459.8	4477.4	4476.2	4470.3	4472.7	4484.4	4483.3	4484.4
5°	4498.6	4496.2	4503.3	4492.7	4513.8	4520.9	4522.1	4532.6	4545.6	4549.1	4549.1
7.5°	4566.7	4566.7	4570.3	4556.2	4570.3	4569.1	4563.2	4573.8	4586.7	4587.9	4586.7
10°	4684.3	4685.5	4679.6	4643.1	4631.4	4599.6	4570.3	4571.4	4587.9	4600.8	4604.3
12.5°	4832.4	4827.7	4801.8	4734.8	4685.5	4620.8	4590.2	4589.1	4605.5	4616.1	4619.6
15°	5001.7	4988.7	4921.7	4812.4	4725.4	4661.9	4612.6	4600.8	4591.4	4579.7	4580.8
17.5°	5161.5	5132.1	5020.5	4868.8	4777.1	4692.5	4597.3	4520.9	4468.0	4437.4	4428.0
20°	5323.7	5266.1	5105.1	4921.7	4805.4	4651.4	4468.0	4312.8	4216.4	4171.8	4163.5
22.5°	5471.8	5379.0	5183.9	4977.0	4783.0	4512.7	4224.7	3999.0	3865.0	3805.0	3809.7
25°	5616.4	5487.1	5266.1	5015.8	4670.2	4268.2	3886.1	3608.7	3453.6	3386.6	3384.2
27.5°	5743.4	5596.4	5355.5	4984.0	4459.8	3920.2	3485.3	3214.9	3085.6	3028.0	3018.6
30°	5889.1	5734.0	5474.2	4863.0	4151.8	3518.2	3093.9	2903.4	2811.7	2754.1	2743.6
32.5°	6066.6	5920.9	5571.8	4643.1	3758.0	3098.6	2788.2	2655.4	2571.9	2507.3	2495.5
35°	6325.2	6167.7	5596.4	4328.1	3325.4	2767.1	2563.7	2427.4	2314.5	2231.1	2222.8
37.5°	6649.7	6476.9	5540.0	3920.2	2905.8	2552.0	2376.8	2208.7	2061.8	1944.2	1925.4
40°	7117.5	6856.6	5383.7	3450.0	2596.6	2386.2	2194.6	2003.0	1820.8	1683.3	1656.2
42.5°	7679.4	7302.1	5143.9	2982.2	2369.8	2218.1	2013.6	1776.1	1602.2	1504.6	1490.5
45°	8394.1	7765.2	4811.2	2573.1	2146.4	2050.0	1818.5	1599.8	1491.7	1420.0	1408.2
47.5°	9209.9	8284.8	4462.1	2240.5	1957.2	1892.5	1662.1	1521.1	1435.3	1378.8	1368.3
50°	10212.6	8871.3	4091.8	1967.7	1766.7	1703.3	1588.1	1477.6	1409.4	1365.9	1355.3
52.5°	11343.4	9533.1	3825.0	1752.6	1609.2	1563.4	1549.3	1454.1	1398.8	1365.9	1355.3
55°	12561.2	10206.7	3537.0	1571.6	1472.9	1485.8	1523.4	1456.4	1418.8	1378.8	1363.6
57.5°	13780.1	10902.6	3216.1	1418.8	1364.7	1428.2	1505.8	1461.1	1429.4	1390.6	1376.5
60°	14744.0	11343.4	2718.9	1290.7	1278.9	1364.7	1463.5	1425.9	1384.7	1385.9	1383.5
62.5°	15194.2	11319.9	2169.9	1176.7	1193.1	1278.9	1395.3	1370.6	1336.5	1382.4	1385.9
65°	14941.5	10755.6	1689.2	1073.2	1101.4	1189.6	1324.8	1343.6	1355.3	1443.5	1455.2
67.5°	13881.2	9657.7	1308.3	982.7	1018.0	1128.5	1331.8	1463.5	1478.8	1571.6	1570.4
69°	12784.5	8628.0	1136.7	935.7	976.8	1143.7	1423.5	1539.9	1482.3	1581.0	1566.9
70°	11865.3	7813.4	1045.0	903.9	958.0	1170.8	1484.6	1538.7	1464.6	1549.3	1525.8
72.5°	9138.2	5621.1	886.3	845.2	894.5	1120.2	1502.3	1504.6	1423.5	1440.0	1400.0
75°	6267.6	3552.3	773.5	765.2	798.1	1009.7	1445.8	1437.6	1316.5	1293.0	1260.1
77.5°	3455.9	1804.4	657.1	688.8	711.2	894.5	1314.2	1302.4	1202.5	1153.1	1141.4
80°	1333.0	789.9	554.8	612.4	626.5	774.6	1152.0	1141.4	1057.9	994.5	976.8
82.5°	503.1	413.8	458.4	530.1	525.4	639.5	975.6	969.8	888.7	795.8	767.6
85°	232.7	248.0	363.2	437.3	403.2	473.7	780.5	791.1	692.4	581.9	581.9
87.5°	98.7	138.7	257.4	330.3	271.5	319.7	572.5	546.6	501.9	347.9	326.8
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)