

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: P318851

Luminaire Tested: **GLEON-SA7C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36999 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

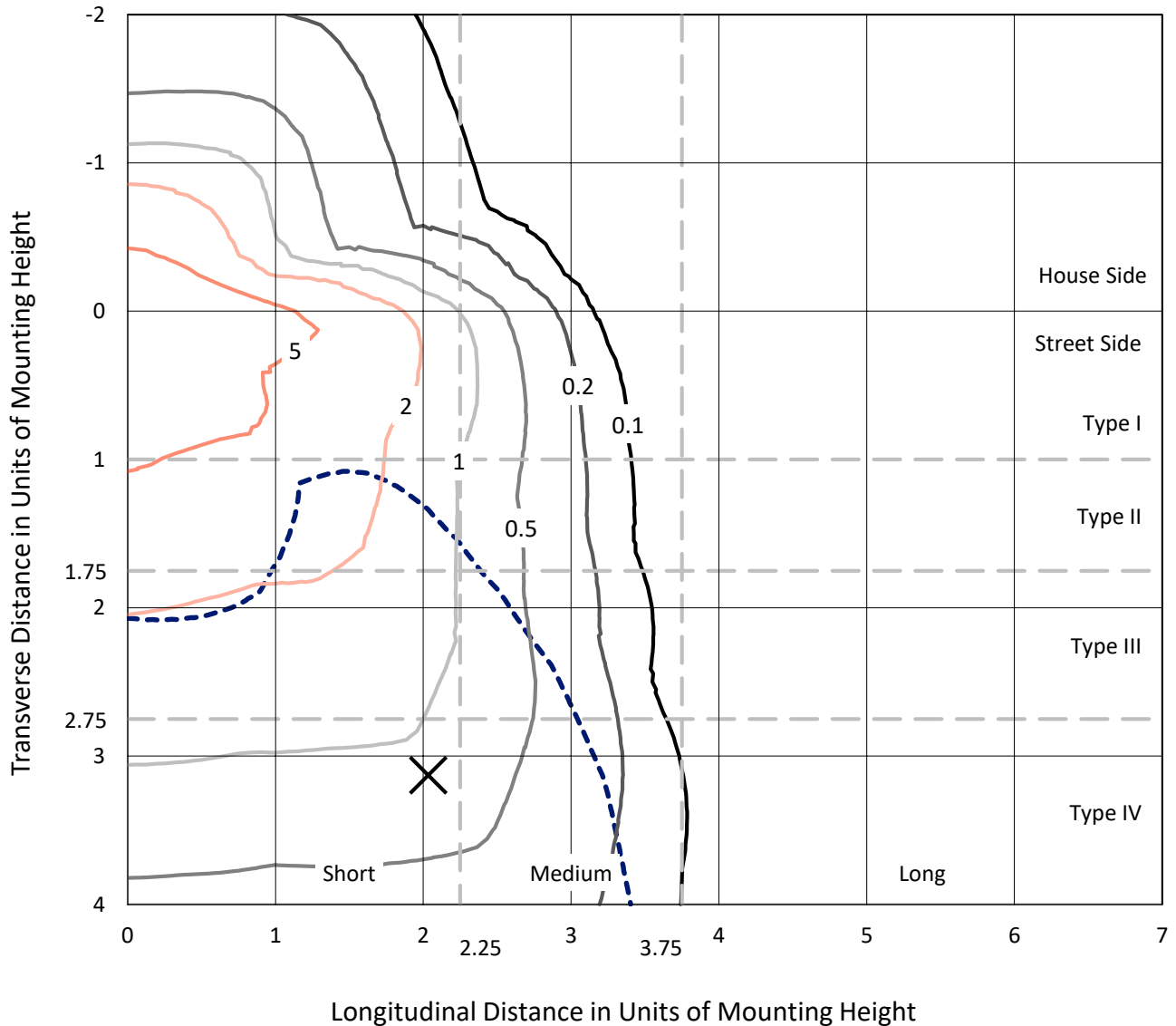
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318851
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

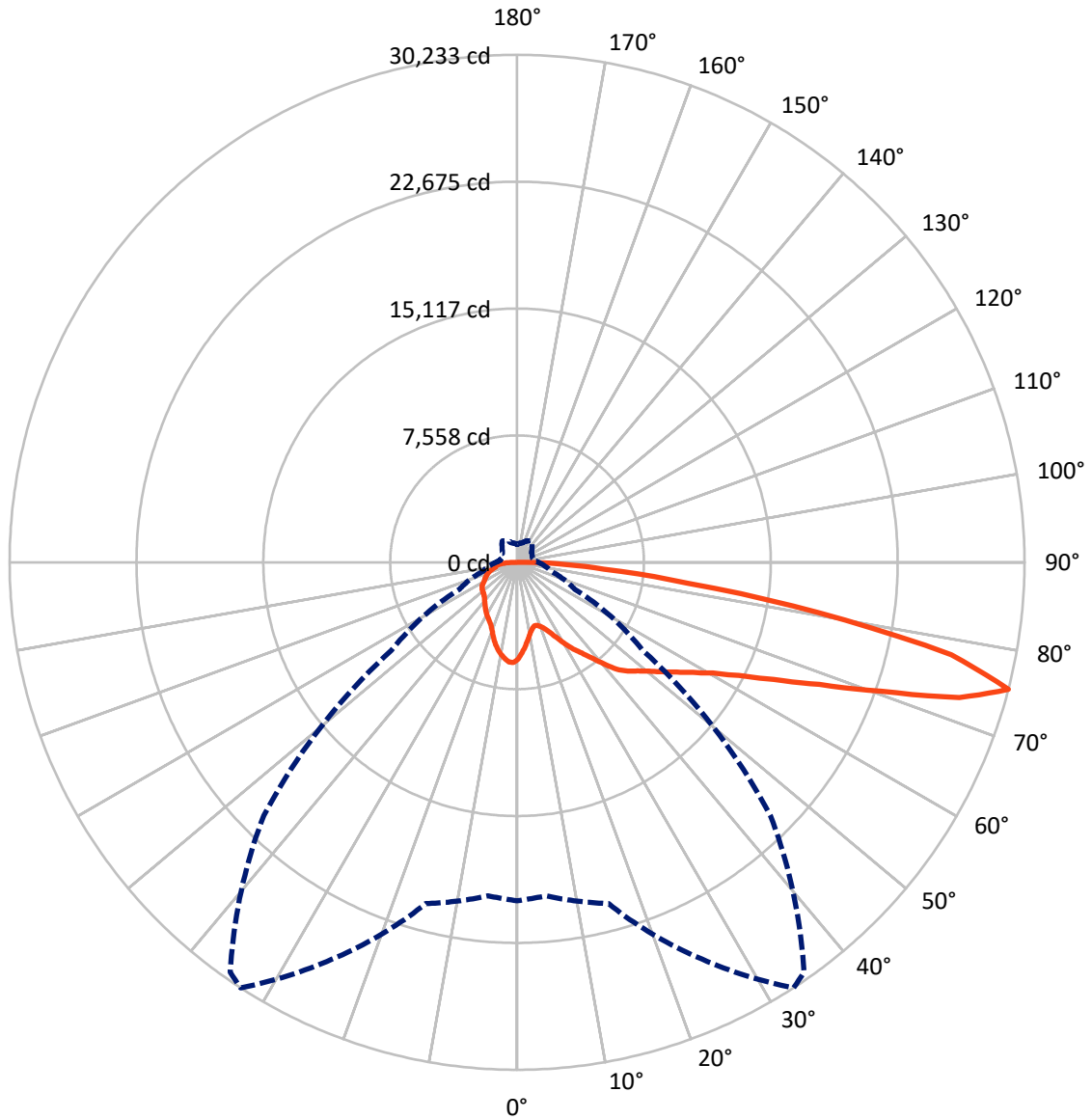
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318851
CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P318851
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

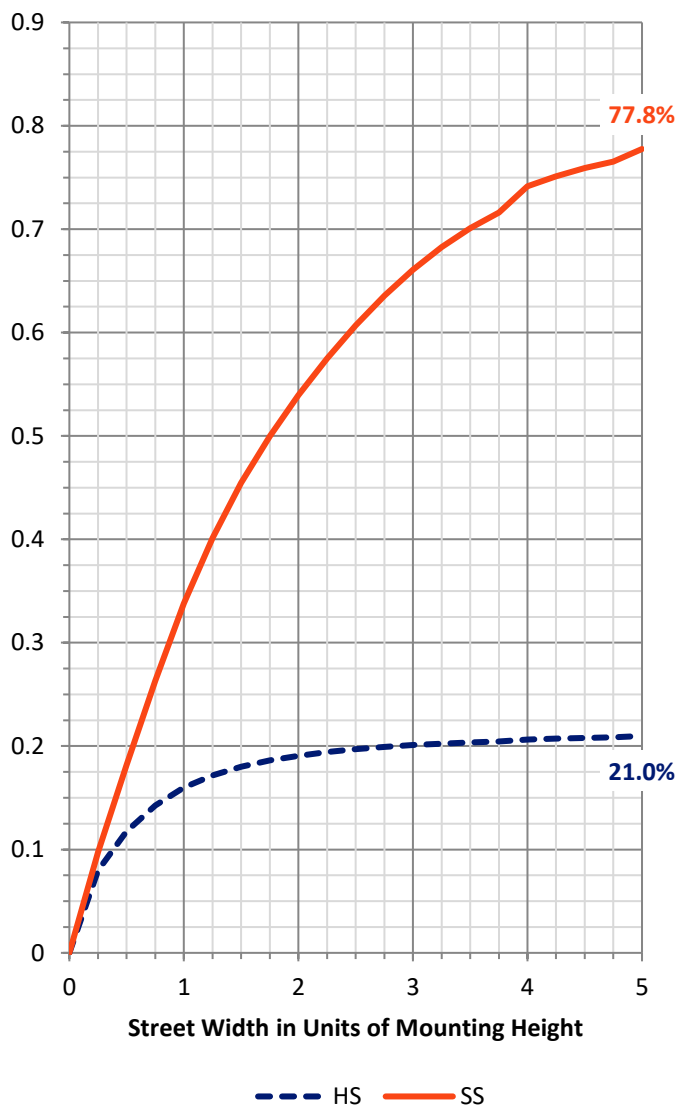
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7944.7	0.0	7944.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29054.3	0.0	29054.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	36999.0	0.0	36999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	1.4
10°-20°	1416.5	3.8
20°-30°	2313.4	6.3
30°-40°	3445.2	9.3
40°-50°	4941.4	13.4
50°-60°	6783.8	18.3
60°-70°	8493.0	23.0
70°-80°	7683.2	20.8
80°-90°	1399.5	3.8
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°	36999.0	100.0
0°-180°	36999.0	100.0

Coefficient of Utilization



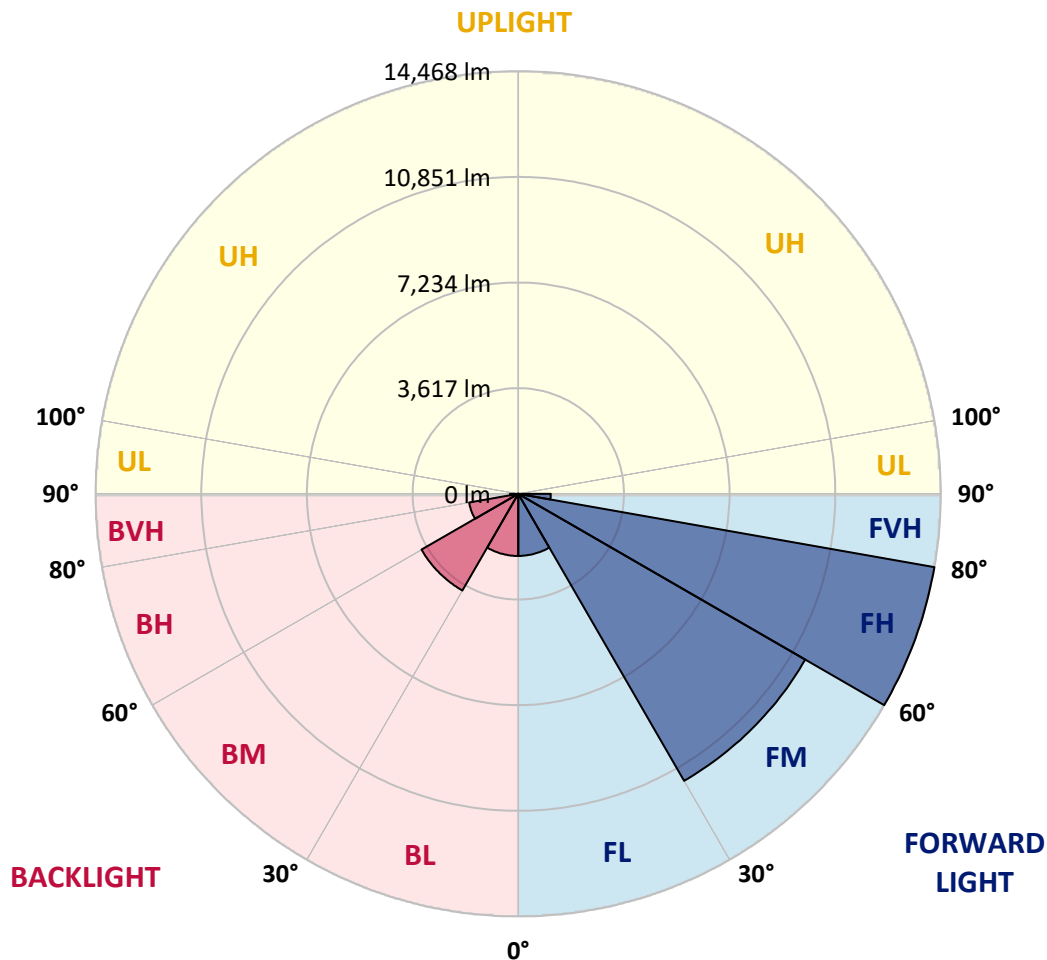
REPORT NUMBER: P318851
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.0	5.7			
FM (30°-60°)	11346.8	30.7			
FH (60°-80°)	14467.9	39.1			G5
FVH (80°-90°)	1114.6	3.0			G5
BL (0°-30°)	2127.9	5.8	B3/2500		
BM (30°-60°)	3823.5	10.3	B3/5000		
BH (60°-80°)	1708.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	284.9	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-G5

Type IV Short





REPORT NUMBER: P318851
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2
2.5°	5370.3	5349.9	5388.2	5393.3	5426.6	5439.4	5485.4	5556.9	5615.7	5683.5	5744.8
5°	4883.4	4869.3	4923.0	4961.4	5034.2	5064.9	5173.5	5325.6	5461.1	5614.4	5753.8
7.5°	4420.8	4413.1	4473.2	4560.1	4644.4	4686.6	4874.5	5095.6	5321.8	5569.7	5783.2
10°	4031.0	4028.4	4085.9	4171.5	4295.5	4342.8	4585.6	4877.0	5194.0	5535.2	5833.0
12.5°	3812.4	3821.4	3848.2	3919.8	4034.8	4082.1	4351.7	4694.3	5086.6	5523.7	5905.8
15°	3866.1	3880.1	3834.1	3831.6	3913.4	3950.4	4203.5	4563.9	5009.9	5542.9	6011.9
17.5°	4094.9	4097.4	3976.0	3899.3	3949.2	3968.3	4157.5	4489.8	4965.2	5586.3	6144.8
20°	4416.9	4410.5	4195.8	4068.0	4094.9	4100.0	4222.7	4491.0	4961.4	5661.7	6317.4
22.5°	4843.8	4796.5	4507.7	4333.8	4327.5	4319.8	4390.1	4585.6	5017.6	5784.4	6523.1
25°	5401.0	5356.3	4958.8	4721.1	4670.0	4650.8	4661.0	4787.6	5128.8	5916.1	6753.2
27.5°	6020.9	5942.9	5559.5	5223.4	5117.3	5090.5	5029.1	5072.6	5250.2	6042.6	7026.7
30°	6539.8	6497.6	6162.7	5764.0	5638.7	5600.4	5439.4	5392.1	5425.3	6215.1	7371.8
32.5°	6829.9	6801.8	6598.5	6276.5	6160.2	6106.5	5879.0	5784.4	5706.5	6487.4	7839.5
35°	7181.3	7163.4	7040.7	6806.9	6634.3	6578.1	6401.7	6303.3	6102.7	6861.8	8444.0
37.5°	7628.6	7609.5	7612.0	7422.9	7217.1	7164.7	7048.4	6944.9	6616.4	7353.9	9101.0
40°	8134.8	8097.7	8083.6	8074.7	7944.3	7914.9	7853.6	7713.0	7260.6	7941.8	9748.9
42.5°	8896.5	8764.8	8483.7	8589.7	8718.8	8703.5	8753.3	8551.4	7976.3	8637.0	10381.6
45°	9631.3	9415.4	8929.7	8952.7	9235.1	9320.8	9694.0	9550.8	8752.0	9398.7	11035.9
47.5°	9966.2	9802.6	9389.8	9391.1	9671.0	9848.6	10666.6	10564.3	9567.4	10264.0	11834.7
50°	10340.7	10177.1	9806.4	9945.7	10189.8	10379.0	11605.9	11553.5	10343.2	11211.0	12791.9
52.5°	10749.6	10472.3	10237.1	10486.4	10828.9	11048.7	12546.6	12403.4	11055.1	12164.4	13892.3
55°	10754.7	10679.3	10858.3	11041.0	11553.5	11823.2	13531.9	13153.6	11635.3	13101.2	14788.3
57.5°	11366.9	11244.2	11623.8	11708.2	12377.9	12682.0	14512.2	13806.7	12225.8	13819.5	15271.4
60°	12177.2	12072.4	12383.0	12605.4	13397.7	13804.2	15558.9	14477.7	12689.7	14361.4	15248.3
62.5°	13576.7	13457.8	13454.0	13765.8	14833.0	15305.9	16733.4	15135.9	12873.7	14468.7	14597.8
65°	15625.4	15436.2	15079.6	15227.9	16815.2	17286.8	18046.0	15612.6	12630.9	13893.6	12922.3
67.5°	17619.1	17612.7	17174.4	17478.5	19432.7	19811.0	19541.3	15659.9	11873.0	11890.9	9949.6
70°	19606.5	19632.0	19557.9	20616.1	22969.0	23362.7	21133.7	15024.7	10169.4	8587.2	5960.8
72.5°	21181.0	21174.6	21547.8	24276.5	27558.5	27470.3	22475.7	13100.0	7301.5	4635.5	2848.8
75°	20161.2	19938.8	21050.7	26088.7	30233.4	29802.7	21334.4	9138.0	3789.4	2110.1	1533.7
77.5°	13149.8	13360.7	14992.7	21551.7	26445.3	25921.3	15652.2	4263.6	1785.4	1384.1	1111.9
80°	4762.0	4984.4	7020.3	12207.9	18219.8	18134.2	7707.9	1752.2	1207.8	1045.4	810.3
82.5°	1638.5	1720.2	2769.5	5421.5	10287.0	10670.4	2899.9	995.6	878.0	741.3	554.7
85°	642.9	736.2	1266.5	2608.5	5188.9	5227.2	1174.5	595.6	610.9	485.7	304.2
87.5°	244.1	296.5	605.8	1211.6	2369.5	2176.5	420.5	283.7	347.6	288.8	144.4
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: P318851
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2	5783.2
2.5°	5792.1	5818.9	5875.2	5913.5	5954.4	5965.9	5971.0	5981.2	5991.5	5987.6	5988.9
5°	5827.9	5880.3	5971.0	6009.4	6027.3	6006.8	5967.2	5935.2	5912.2	5899.5	5895.6
7.5°	5886.7	5960.8	6057.9	6051.5	6010.6	5919.9	5817.7	5741.0	5677.1	5654.1	5641.3
10°	5964.6	6051.5	6119.3	6046.4	5927.6	5770.4	5617.0	5498.1	5402.3	5365.2	5358.8
12.5°	6064.3	6152.5	6165.3	6010.6	5813.8	5599.1	5390.8	5233.6	5090.5	5044.4	5034.2
15°	6193.4	6276.5	6197.2	5948.0	5673.2	5384.4	5114.7	4901.3	4750.5	4694.3	4673.8
17.5°	6328.9	6408.1	6203.6	5844.5	5489.2	5130.1	4791.4	4572.8	4400.3	4335.1	4327.5
20°	6491.2	6527.0	6176.8	5696.2	5236.1	4800.3	4443.8	4238.0	4146.0	4100.0	4094.9
22.5°	6691.8	6653.5	6115.4	5495.6	4915.4	4419.5	4129.4	4033.5	4010.5	4000.3	4004.1
25°	6904.0	6786.4	6024.7	5233.6	4510.2	4038.6	3899.3	3926.2	3956.8	3953.0	3953.0
27.5°	7137.9	6921.9	5885.4	4886.0	4061.6	3726.8	3743.4	3841.8	3887.8	3886.5	3885.3
30°	7438.2	7075.3	5707.7	4468.0	3642.4	3507.0	3607.9	3728.1	3790.7	3788.1	3789.4
32.5°	7807.6	7244.0	5466.2	4001.6	3339.5	3344.6	3460.9	3579.8	3652.7	3646.3	3647.5
35°	8239.6	7433.1	5139.0	3541.5	3138.9	3215.6	3307.6	3390.7	3459.7	3450.7	3441.8
37.5°	8709.9	7618.4	4704.5	3129.9	2975.3	3095.4	3172.1	3186.2	3218.1	3195.1	3178.5
40°	9157.2	7760.3	4144.7	2792.5	2810.4	2993.2	3043.0	2986.8	2929.3	2921.6	2898.6
42.5°	9547.0	7807.6	3578.5	2522.9	2636.6	2885.8	2916.5	2798.9	2695.4	2646.8	2626.4
45°	9958.5	7824.2	3050.7	2296.6	2469.2	2790.0	2823.2	2666.0	2520.3	2415.5	2381.0
47.5°	10496.6	7944.3	2640.4	2129.2	2341.4	2726.1	2773.4	2559.9	2370.8	2221.2	2189.3
50°	11200.8	8182.0	2306.9	2001.4	2258.3	2683.9	2737.6	2456.4	2248.1	2067.9	2035.9
52.5°	11982.9	8400.6	2037.2	1897.9	2177.8	2609.8	2691.6	2382.3	2133.1	1926.0	1891.5
55°	12529.9	8233.2	1819.9	1790.5	2073.0	2503.7	2627.7	2319.7	1968.2	1788.0	1757.3
57.5°	12634.7	7660.6	1655.1	1679.4	1946.5	2370.8	2529.2	2180.3	1878.7	1727.9	1696.0
60°	12348.5	6863.1	1532.4	1577.1	1811.0	2203.3	2345.2	2081.9	1793.1	1664.0	1637.2
62.5°	11628.9	6046.4	1441.6	1485.1	1684.5	2033.4	2230.2	1978.4	1706.2	1591.2	1564.3
65°	10175.8	5076.4	1354.7	1403.3	1566.9	1886.4	2126.7	1882.6	1620.6	1532.4	1506.8
67.5°	7681.0	3802.2	1272.9	1316.4	1462.1	1758.6	2014.2	1788.0	1537.5	1481.3	1450.6
70°	4523.0	2381.0	1179.6	1225.6	1352.2	1625.7	1894.1	1684.5	1434.0	1408.4	1368.8
72.5°	2104.9	1432.7	1073.6	1118.3	1214.1	1448.0	1739.4	1549.0	1311.3	1255.0	1201.4
75°	1256.3	1048.0	948.3	987.9	1055.7	1258.9	1545.2	1411.0	1195.0	1120.8	1064.6
77.5°	939.4	801.3	810.3	852.5	907.4	1101.7	1368.8	1302.3	1105.5	1048.0	1009.7
80°	676.1	608.3	660.7	706.8	764.3	1002.0	1311.3	1203.9	999.4	922.7	887.0
82.5°	451.1	437.1	497.2	544.4	600.7	876.7	1232.0	1054.4	853.7	756.6	677.4
85°	249.2	263.3	334.8	355.3	403.9	617.3	1009.7	847.3	642.9	517.6	494.6
87.5°	103.5	121.4	180.2	173.8	214.7	368.1	664.6	511.2	409.0	305.5	237.7
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)