

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: P652472

Luminaire Tested: **GALN-SA6B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29039.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

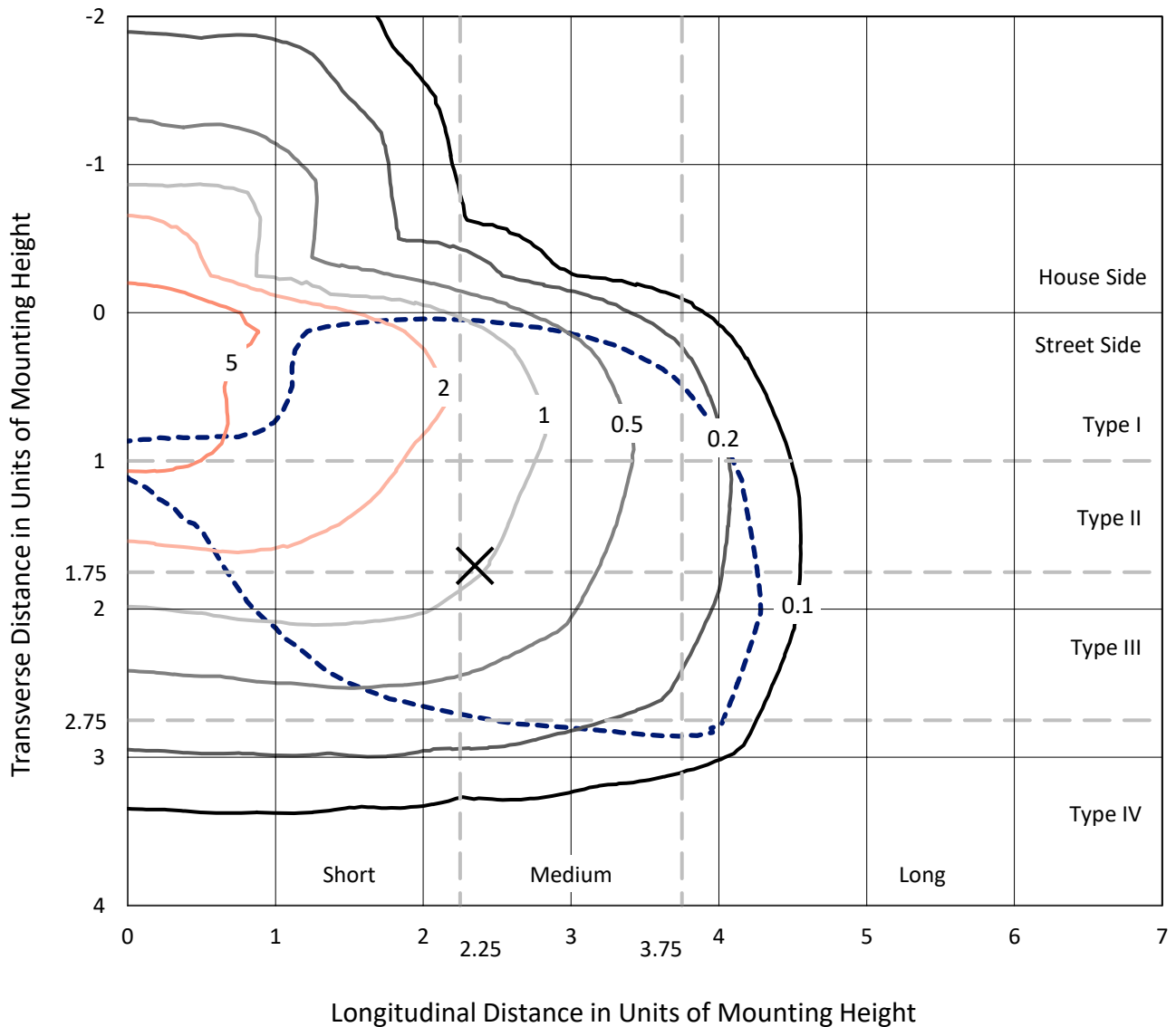
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

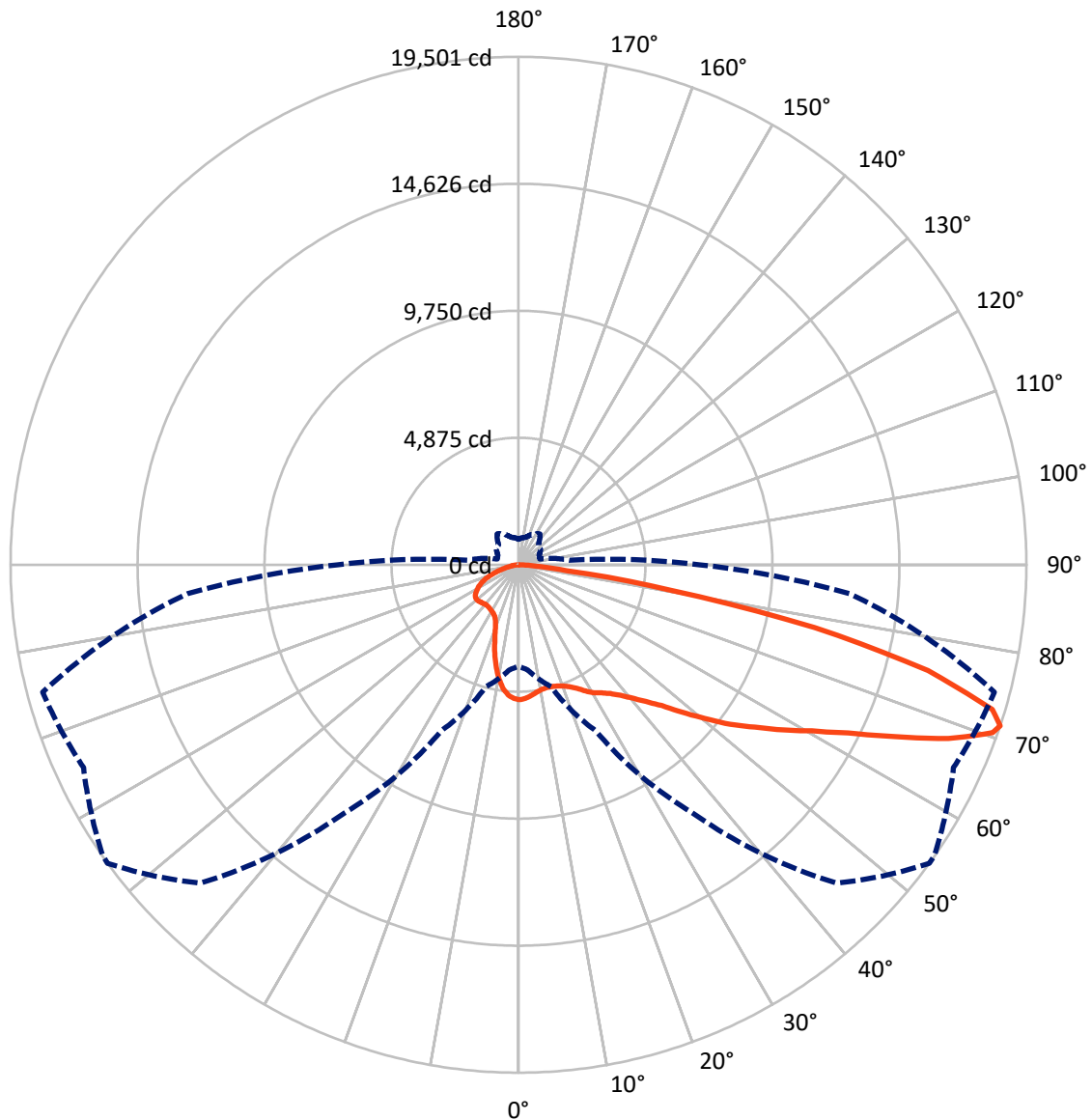
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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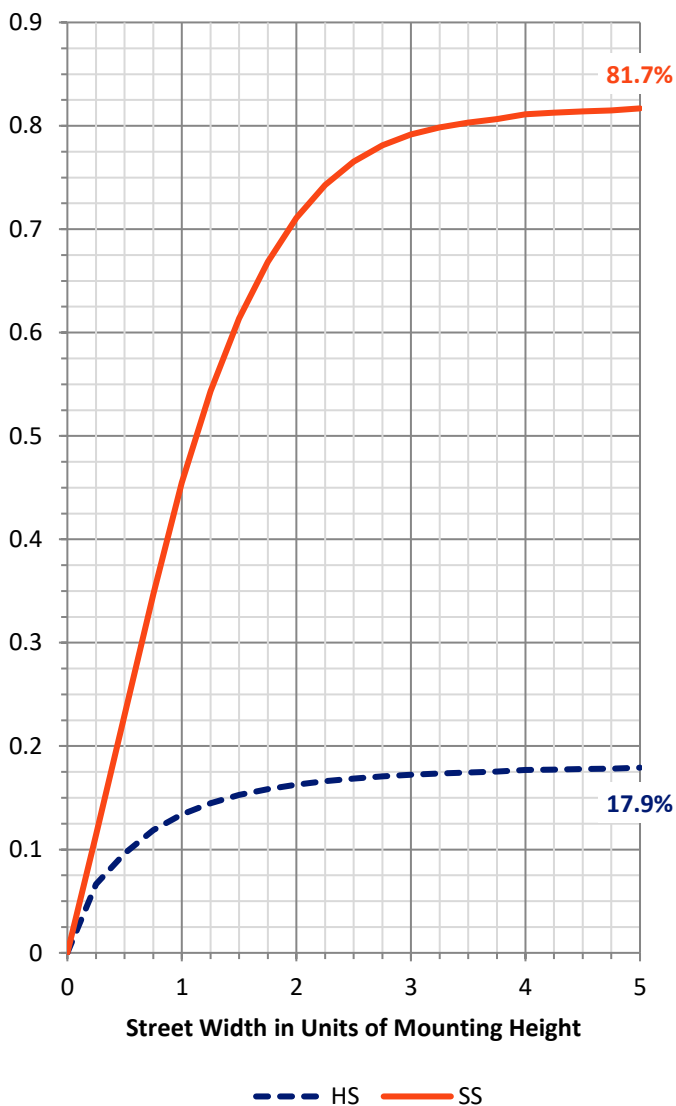
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5242.9	0.0	5242.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23796.8	0.0	23796.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	29039.7	0.0	29039.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	1.6
10°-20°	1219.2	4.2
20°-30°	2030.0	7.0
30°-40°	3001.6	10.3
40°-50°	4227.9	14.6
50°-60°	5661.4	19.5
60°-70°	7135.7	24.6
70°-80°	4873.7	16.8
80°-90°	428.6	1.5
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°	29039.7	100.0
0°-180°	29039.7	100.0

Coefficient of Utilization

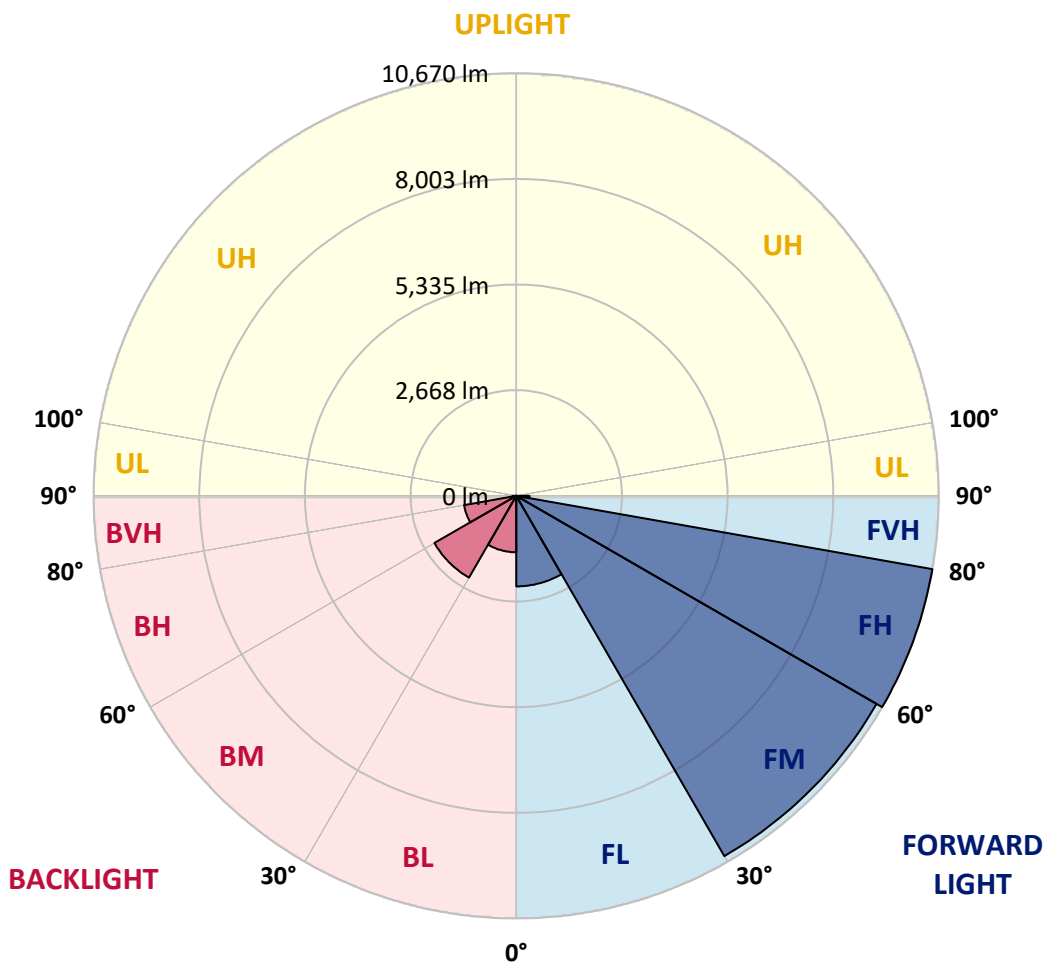


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.9	7.9			
FM (30°-60°)	10505.5	36.2			
FH (60°-80°)	10670.3	36.7			G4/12000
FVH (80°-90°)	335.0	1.2			G3/500
BL (0°-30°)	1424.9	4.9	B3/2500		
BM (30°-60°)	2385.4	8.2	B2/2500		
BH (60°-80°)	1339.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	93.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1
2.5°	5005.5	5028.9	5035.2	5051.0	5083.8	5110.5	5137.2	5134.1	5171.7	5187.4	5201.5
5°	4782.7	4789.0	4812.5	4843.9	4901.9	4975.6	5047.8	5049.4	5141.9	5215.6	5251.7
7.5°	4619.5	4640.0	4655.6	4688.6	4749.7	4829.8	4944.2	4953.7	5118.4	5264.2	5341.1
10°	4512.9	4536.4	4553.7	4594.5	4655.6	4745.0	4869.0	4886.2	5101.1	5341.1	5476.0
12.5°	4415.7	4439.1	4454.9	4508.2	4588.2	4698.0	4837.6	4858.0	5107.4	5430.5	5623.4
15°	4475.2	4494.1	4487.8	4503.5	4556.8	4682.3	4850.1	4870.6	5130.9	5516.8	5769.3
17.5°	4740.3	4756.0	4704.3	4644.7	4619.5	4712.1	4889.3	4911.4	5178.0	5606.2	5918.4
20°	5130.9	5173.2	5060.3	4927.0	4806.2	4818.8	4970.9	4994.4	5243.9	5695.6	6070.5
22.5°	5639.2	5670.5	5532.5	5312.8	5090.2	4975.6	5093.3	5107.4	5342.7	5811.7	6236.8
25°	6236.8	6255.6	6064.3	5781.9	5460.4	5243.9	5261.1	5286.2	5505.9	5943.4	6384.3
27.5°	6817.1	6876.8	6655.6	6310.5	5887.0	5526.2	5491.7	5507.4	5683.1	6017.2	6486.2
30°	7505.8	7501.1	7267.3	6867.4	6324.7	5833.7	5709.7	5706.6	5778.8	6053.3	6559.9
32.5°	8054.8	8119.1	7890.1	7454.0	6825.1	6152.1	5860.3	5854.0	5852.5	6116.0	6669.7
35°	8679.1	8688.5	8478.4	8039.1	7366.2	6552.1	6070.5	6039.1	6003.1	6250.9	6818.7
37.5°	9237.5	9281.4	9088.5	8595.9	7897.9	6967.8	6359.1	6338.8	6229.0	6484.6	7057.2
40°	9673.6	9706.6	9590.5	9121.5	8421.9	7416.4	6726.2	6688.6	6555.3	6867.4	7375.6
42.5°	9816.3	9883.8	9929.3	9698.7	9024.2	7948.1	7177.9	7130.9	7028.9	7447.7	7742.7
45°	9827.3	9934.0	10174.0	10185.0	9629.7	8585.0	7705.0	7672.1	7664.2	8191.3	8258.7
47.5°	9744.2	9852.4	10255.6	10473.6	10169.3	9228.1	8465.8	8414.0	8418.7	9110.5	8837.6
50°	9543.4	9672.1	10161.5	10658.7	10591.2	9896.4	9268.9	9251.7	9348.9	10159.9	9438.3
52.5°	9165.4	9320.7	10064.2	10774.8	10905.0	10472.0	10181.8	10133.2	10379.5	11298.7	10095.5
55°	8119.1	8352.8	9708.1	10839.1	11203.0	11022.7	11003.8	11091.6	11417.9	12541.1	10818.7
57.5°	7573.3	7748.9	8934.8	10850.1	11579.5	11662.7	11963.8	11985.8	12556.7	13860.3	11635.9
60°	7275.2	7430.5	8511.3	10777.9	12104.9	12454.8	12945.8	13024.1	13668.9	15289.2	12483.0
62.5°	7014.8	7148.2	8257.2	10528.5	12697.9	13629.7	14217.9	14255.5	14931.6	16867.3	13319.1
65°	6401.5	6553.7	7745.8	10279.1	13209.3	15097.9	15905.7	15861.8	16275.9	18228.8	13842.9
67.5°	5574.8	5767.7	6790.5	9417.9	13461.8	16702.6	17806.8	17752.0	17603.0	19121.3	13993.6
70°	4519.2	4622.7	5568.6	7929.3	12453.2	17544.9	19308.0	19250.0	18424.9	19239.0	13281.4
71°	3888.6	4050.2	4848.5	7043.0	11614.0	17287.7	19500.9	19485.3	18426.5	18914.3	12744.9
72.5°	3035.3	3134.1	3839.9	5457.2	9871.2	15825.7	19024.1	19083.7	18026.5	18012.4	11639.1
75°	1920.0	1963.9	2409.4	3212.5	5416.4	11207.8	16239.8	16401.4	16006.1	14743.4	8655.6
77.5°	1115.3	1171.8	1443.2	1893.3	2340.3	6083.0	11620.3	11796.0	11121.5	8117.6	3543.5
80°	649.4	712.2	950.6	1099.6	1074.5	2257.2	5916.8	6216.4	4815.7	2050.2	994.5
82.5°	360.8	403.1	668.3	669.8	572.6	737.2	1862.0	1948.2	1374.1	826.6	406.3
85°	262.0	296.5	431.3	390.6	274.5	316.9	647.8	679.2	555.3	348.3	131.8
87.5°	92.5	131.8	236.8	188.2	75.3	65.9	186.7	152.1	141.2	97.2	29.8
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°	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1	5181.1
2.5°	5209.3	5212.5	5196.8	5168.5	5140.4	5104.3	5063.5	5032.1	5018.0	5016.4	5014.9
5°	5265.8	5273.7	5214.0	5126.2	5028.9	4909.8	4807.8	4691.7	4661.9	4614.8	4628.9
7.5°	5356.8	5352.1	5234.5	5047.8	4820.4	4567.8	4354.4	4230.6	4101.9	4065.8	4067.4
10°	5487.0	5457.2	5234.5	4887.8	4508.2	4133.3	3835.2	3647.0	3545.1	3460.4	3429.0
12.5°	5625.0	5549.8	5184.3	4663.5	4106.6	3647.0	3327.0	3072.9	3007.0	2938.0	2939.5
15°	5756.8	5631.3	5085.4	4348.2	3673.7	3127.8	2817.2	2665.0	2644.7	2652.5	2650.9
17.5°	5876.0	5689.4	4934.8	3996.9	3168.6	2682.3	2517.6	2528.6	2583.5	2622.7	2627.5
20°	5996.8	5723.8	4710.5	3526.2	2691.7	2412.5	2418.8	2505.1	2588.2	2641.5	2649.4
22.5°	6111.3	5739.6	4447.0	3071.3	2346.6	2298.0	2390.5	2483.1	2564.7	2616.4	2624.3
25°	6186.6	5703.5	4073.7	2596.1	2177.3	2257.2	2354.5	2432.9	2501.9	2555.3	2567.8
27.5°	6207.0	5587.4	3610.9	2211.7	2098.8	2218.1	2307.5	2365.5	2418.8	2469.0	2478.4
30°	6196.0	5416.4	3102.7	1985.9	2053.3	2172.6	2241.5	2283.9	2348.2	2387.4	2395.3
32.5°	6178.7	5217.2	2572.5	1865.1	2015.6	2130.2	2171.0	2208.6	2207.0	2191.3	2202.3
35°	6185.1	4978.8	2142.7	1792.9	1982.7	2098.8	2133.3	2086.3	1951.4	1945.1	1938.8
37.5°	6217.9	4743.5	1830.6	1742.7	1965.5	2094.1	2112.9	1896.5	1777.2	1722.4	1708.2
40°	6302.7	4469.0	1625.1	1705.0	1963.9	2130.2	2020.3	1800.7	1571.7	1465.1	1457.2
42.5°	6415.7	4199.2	1499.6	1681.6	1982.7	2185.1	1982.7	1665.9	1416.5	1353.7	1344.3
45°	6583.4	3890.1	1430.5	1670.6	2011.0	2205.4	1970.2	1567.0	1353.7	1303.6	1303.6
47.5°	6773.2	3595.3	1392.9	1662.7	2047.0	2191.3	1858.8	1535.7	1323.9	1330.2	1360.0
50°	6961.5	3339.6	1364.7	1645.5	2078.4	2183.5	1813.3	1534.1	1331.7	1411.8	1465.1
52.5°	7179.5	3159.2	1330.2	1617.2	2078.4	2133.3	1799.2	1565.4	1353.7	1377.2	1400.8
55°	7443.0	3102.7	1286.2	1556.1	2040.8	2007.8	1791.3	1610.9	1369.4	1314.5	1323.9
57.5°	7791.3	3193.7	1243.9	1479.2	1954.5	1877.6	1788.2	1623.6	1333.3	1287.8	1278.4
60°	8196.0	3374.1	1231.4	1400.8	1836.8	1766.3	1769.4	1587.5	1283.1	1236.1	1243.9
62.5°	8479.9	3482.3	1223.5	1341.1	1708.2	1643.9	1723.9	1543.5	1261.2	1220.4	1228.2
65°	8479.9	3350.5	1151.3	1250.1	1542.0	1496.5	1669.0	1488.6	1232.9	1185.9	1178.0
67.5°	8158.4	2966.2	1041.6	1113.7	1358.4	1328.6	1592.1	1422.7	1190.6	1154.5	1135.7
70°	7320.7	2249.4	903.5	953.7	1126.3	1152.9	1493.3	1333.3	1120.0	1076.1	1047.8
71°	6952.0	1959.2	845.5	872.1	1036.9	1076.1	1446.3	1295.6	1088.6	1025.9	975.6
72.5°	6241.5	1650.2	757.7	768.6	886.2	956.9	1347.5	1223.5	1029.0	939.6	883.1
75°	4741.9	1204.7	610.2	603.9	655.6	759.2	1140.4	1090.2	902.0	781.2	748.2
77.5°	2048.6	655.6	456.5	461.2	445.5	575.7	897.3	936.5	773.3	635.3	605.5
80°	621.2	378.0	312.2	318.4	298.1	385.9	632.2	734.1	621.2	494.1	453.3
82.5°	318.4	225.9	213.4	210.2	189.8	218.1	382.7	502.0	443.9	309.0	272.9
85°	138.0	120.8	105.1	101.9	89.4	78.5	136.5	251.0	235.3	172.6	164.7
87.5°	34.5	31.4	20.4	18.8	11.0	1.6	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)