

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: P652527

Luminaire Tested: **GALN-SA7B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652527
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-SA7B-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 34109.3 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

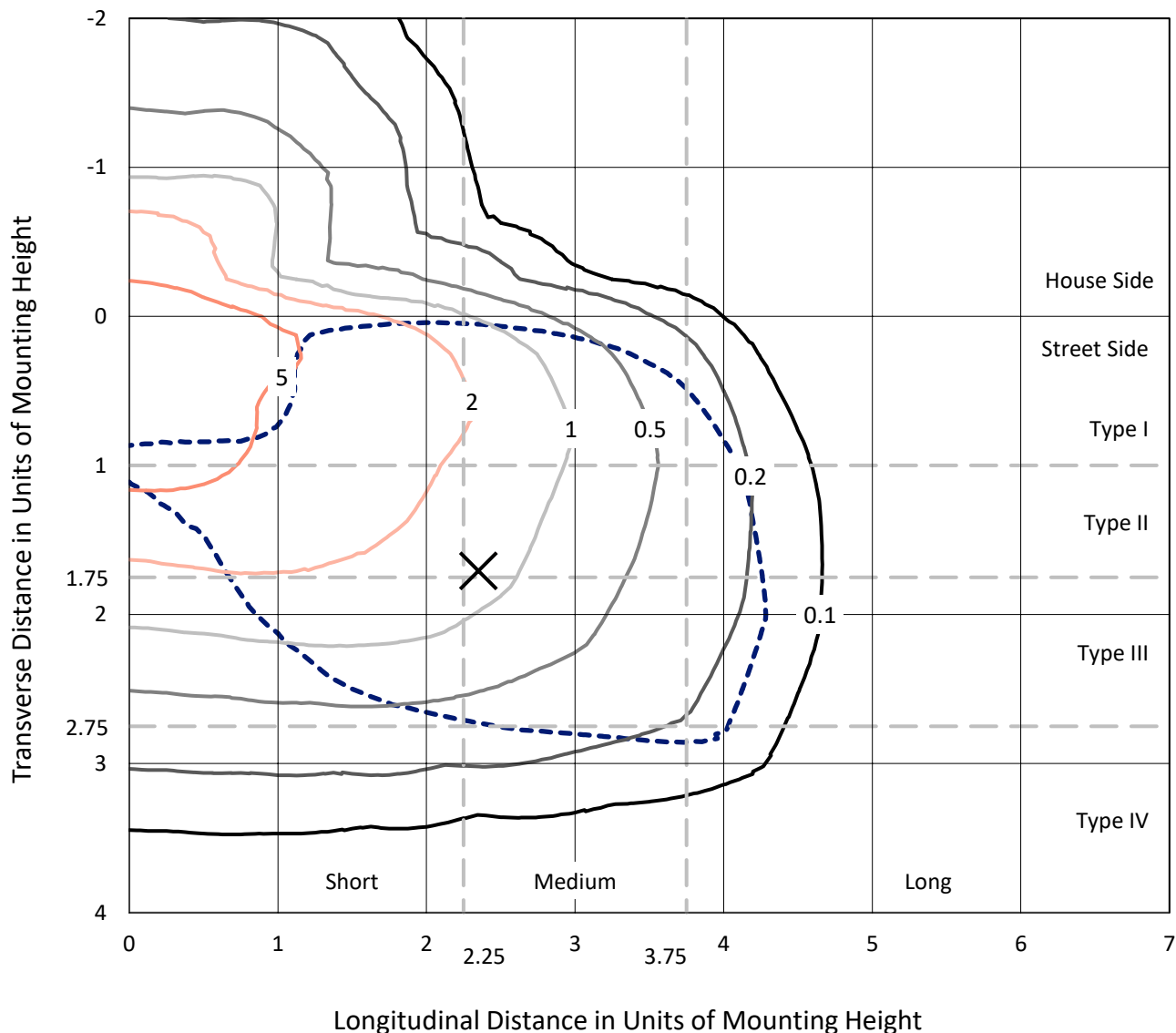
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

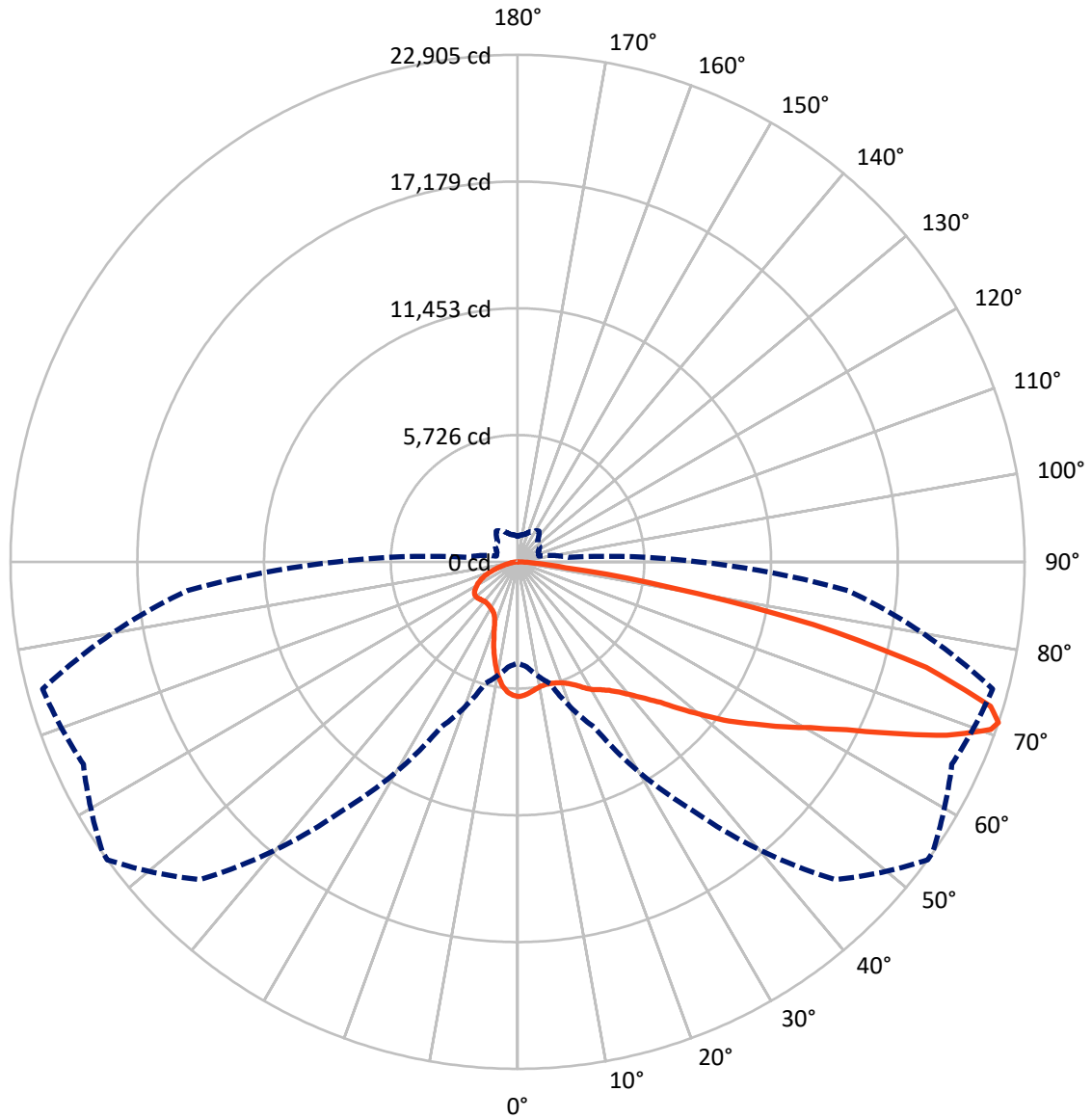
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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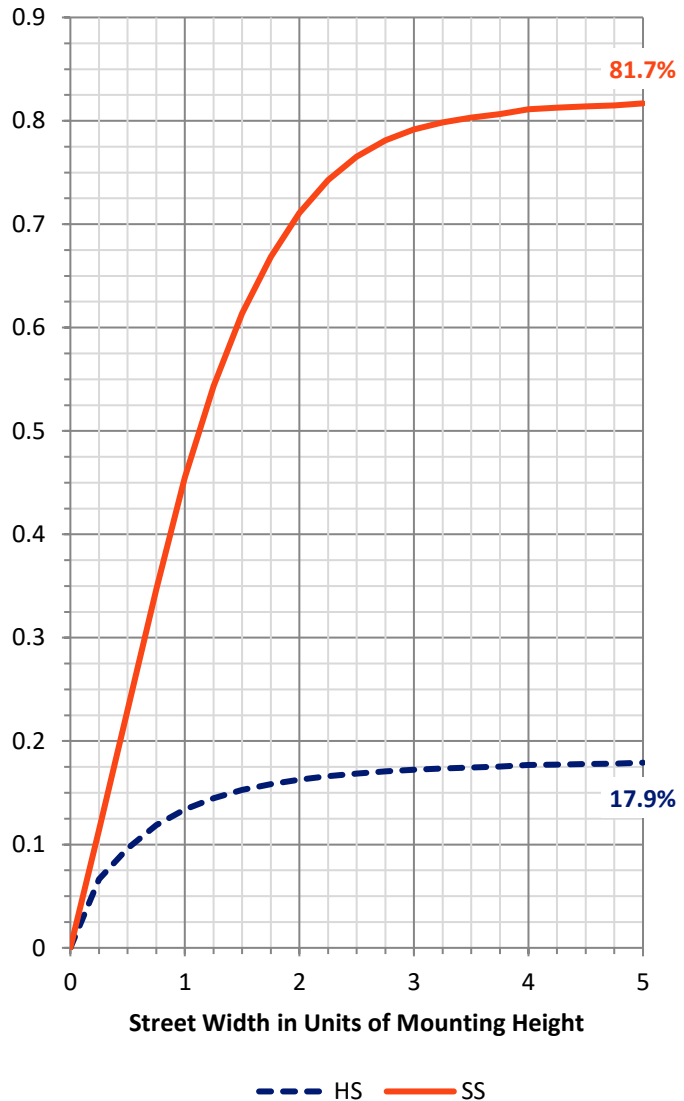
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6158.2	0.0	6158.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27951.1	0.0	27951.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	34109.3	0.0	34109.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.3	1.6
10°-20°	1432.0	4.2
20°-30°	2384.3	7.0
30°-40°	3525.6	10.3
40°-50°	4966.0	14.6
50°-60°	6649.7	19.5
60°-70°	8381.4	24.6
70°-80°	5724.5	16.8
80°-90°	503.4	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°	34109.3	100.0
0°-180°	34109.3	100.0

Coefficient of Utilization

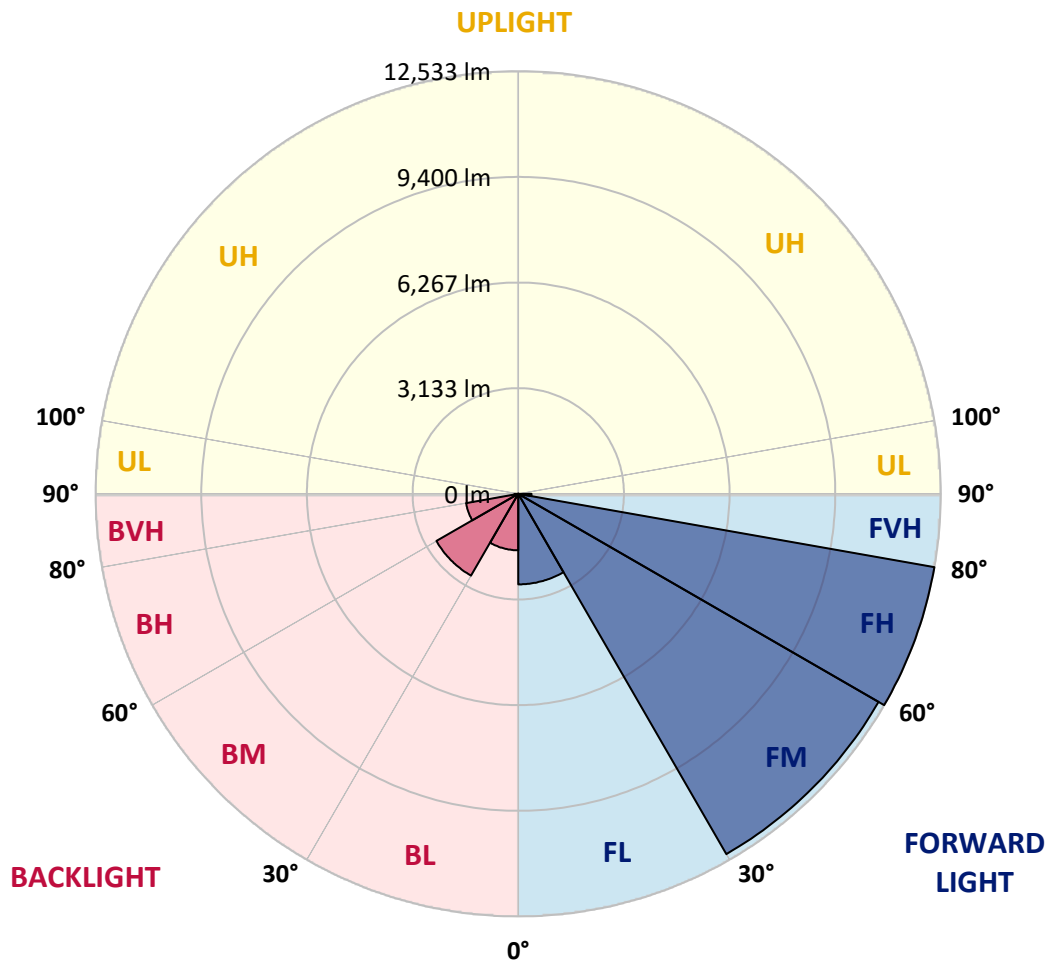


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2685.0	7.9			
FM (30°-60°)	12339.5	36.2			
FH (60°-80°)	12533.1	36.7			G5
FVH (80°-90°)	393.5	1.2			G3/500
BL (0°-30°)	1673.7	4.9	B3/2500		
BM (30°-60°)	2801.8	8.2	B3/5000		
BH (60°-80°)	1572.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	109.9	0.3			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6
2.5°	5879.3	5906.8	5914.2	5932.7	5971.4	6002.7	6034.0	6030.3	6074.5	6093.0	6109.5
5°	5617.6	5625.0	5652.6	5689.4	5757.7	5844.3	5929.0	5930.8	6039.6	6126.1	6168.5
7.5°	5426.0	5449.9	5468.4	5507.0	5578.9	5672.9	5807.4	5818.5	6011.9	6183.3	6273.5
10°	5300.7	5328.3	5348.6	5396.5	5468.4	5573.4	5719.0	5739.2	5991.6	6273.5	6432.0
12.5°	5186.4	5214.1	5232.5	5295.2	5389.1	5518.1	5682.1	5706.0	5999.0	6378.6	6605.1
15°	5256.5	5278.6	5271.2	5289.6	5352.3	5499.7	5696.8	5720.8	6026.6	6479.9	6776.5
17.5°	5567.8	5586.3	5525.5	5455.5	5426.0	5534.7	5742.9	5768.7	6081.9	6584.9	6951.5
20°	6026.6	6076.4	5943.8	5787.1	5645.3	5660.0	5838.7	5866.3	6159.3	6689.9	7130.3
22.5°	6623.6	6660.5	6498.3	6240.4	5978.8	5844.3	5982.5	5999.0	6275.4	6826.2	7325.5
25°	7325.5	7347.6	7122.9	6791.2	6413.6	6159.3	6179.6	6209.0	6467.0	6981.1	7498.8
27.5°	8007.2	8077.3	7817.5	7412.2	6914.7	6490.9	6450.4	6468.8	6675.2	7067.6	7618.5
30°	8816.1	8810.6	8536.1	8066.2	7428.7	6852.0	6706.5	6702.9	6787.5	7110.0	7705.1
32.5°	9461.0	9536.5	9267.5	8755.3	8016.5	7226.0	6883.4	6876.0	6874.2	7183.7	7834.1
35°	10194.3	10205.3	9958.4	9442.5	8652.1	7695.9	7130.3	7093.4	7051.0	7342.2	8009.1
37.5°	10850.2	10901.7	10675.1	10096.6	9276.7	8184.1	7469.3	7445.3	7316.4	7616.7	8289.1
40°	11362.3	11401.0	11264.7	10713.8	9892.1	8711.1	7900.4	7856.2	7699.6	8066.2	8663.1
42.5°	11530.0	11609.2	11662.7	11391.8	10599.6	9335.7	8431.0	8375.8	8256.0	8747.9	9094.3
45°	11542.9	11668.2	11950.1	11963.0	11310.8	10083.7	9050.1	9011.4	9002.2	9621.3	9700.5
47.5°	11445.3	11572.4	12045.9	12302.0	11944.6	10839.1	9943.6	9882.8	9888.4	10701.0	10380.4
50°	11209.4	11360.6	11935.4	12519.5	12440.2	11624.0	10887.0	10866.7	10981.0	11933.5	11086.0
52.5°	10765.4	10947.8	11821.1	12655.8	12808.7	12300.2	11959.4	11902.2	12191.5	13271.1	11858.0
55°	9536.5	9811.0	11402.9	12731.3	13158.8	12946.9	12924.7	13027.9	13411.2	14730.4	12707.3
57.5°	8895.3	9101.7	10494.6	12744.2	13600.9	13698.6	14052.4	14078.2	14748.8	16279.8	13667.3
60°	8545.2	8727.6	9997.1	12659.5	14218.2	14629.0	15205.7	15297.8	16055.1	17958.3	14662.2
62.5°	8239.4	8396.0	9698.7	12366.5	14914.6	16009.0	16699.9	16744.1	17538.2	19811.9	15644.2
65°	7519.0	7697.8	9098.0	12073.6	15515.3	17733.6	18682.4	18630.8	19117.2	21411.1	16259.6
67.5°	6548.0	6774.7	7976.0	11062.0	15811.9	19618.3	20915.4	20851.0	20675.9	22459.4	16436.5
70°	5308.1	5429.7	6540.7	9313.6	14627.2	20607.8	22678.7	22610.5	21641.4	22597.6	15600.0
71°	4567.4	4757.2	5695.0	8272.6	13641.4	20305.6	22905.3	22886.9	21643.2	22216.2	14969.9
72.5°	3565.2	3681.2	4510.3	6409.8	11594.5	18588.5	22345.2	22415.2	21173.4	21156.8	13671.0
75°	2255.1	2306.8	2830.0	3773.3	6362.0	13164.3	19074.8	19264.6	18800.3	17317.1	10166.6
77.5°	1309.9	1376.3	1695.0	2223.9	2748.9	7145.0	13648.8	13855.2	13062.9	9534.7	4162.1
80°	762.8	836.5	1116.5	1291.5	1262.1	2651.3	6949.7	7301.6	5656.3	2408.1	1168.1
82.5°	423.8	473.5	784.9	786.8	672.5	866.0	2187.0	2288.3	1614.0	970.9	477.2
85°	307.7	348.3	506.7	458.8	322.4	372.1	760.9	797.8	652.2	409.1	154.7
87.5°	108.7	154.7	278.2	221.1	88.5	77.4	219.2	178.7	165.8	114.2	35.0
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°	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6	6085.6
2.5°	6118.8	6122.5	6104.1	6070.8	6037.7	5995.3	5947.4	5910.5	5894.0	5892.1	5890.3
5°	6185.1	6194.3	6124.3	6021.1	5906.8	5766.8	5647.1	5510.7	5475.8	5420.5	5437.1
7.5°	6291.9	6286.4	6148.2	5929.0	5661.9	5365.2	5114.6	4969.0	4818.0	4775.6	4777.5
10°	6444.8	6409.8	6148.2	5741.1	5295.2	4854.8	4504.8	4283.7	4164.0	4064.5	4027.5
12.5°	6607.0	6518.6	6089.3	5477.6	4823.6	4283.7	3907.8	3609.3	3531.9	3450.9	3452.7
15°	6761.8	6614.4	5973.2	5107.2	4315.0	3673.8	3309.0	3130.3	3106.4	3115.6	3113.7
17.5°	6901.8	6682.6	5796.3	4694.5	3721.8	3150.6	2957.1	2970.0	3034.5	3080.6	3086.1
20°	7043.7	6723.1	5532.9	4141.8	3161.7	2833.7	2841.1	2942.4	3040.0	3102.7	3111.9
22.5°	7178.2	6741.5	5223.4	3607.5	2756.3	2699.2	2807.8	2916.6	3012.4	3073.2	3082.4
25°	7266.6	6699.2	4784.9	3049.2	2557.3	2651.3	2765.5	2857.6	2938.7	3001.4	3016.1
27.5°	7290.5	6562.8	4241.3	2597.8	2465.2	2605.2	2710.2	2778.4	2841.1	2900.0	2911.0
30°	7277.7	6362.0	3644.4	2332.5	2411.7	2551.8	2632.8	2682.6	2758.1	2804.2	2813.4
32.5°	7257.4	6127.9	3021.6	2190.6	2367.6	2502.1	2549.9	2594.1	2592.3	2573.9	2586.8
35°	7264.7	5847.9	2516.8	2105.9	2328.8	2465.2	2505.8	2450.4	2292.0	2284.7	2277.3
37.5°	7303.5	5571.5	2150.1	2047.0	2308.5	2459.7	2481.8	2227.6	2087.5	2023.0	2006.5
40°	7403.0	5249.1	1908.7	2002.8	2306.8	2502.1	2373.0	2115.1	1846.2	1720.9	1711.6
42.5°	7535.6	4932.2	1761.4	1975.1	2328.8	2566.6	2328.8	1956.7	1663.8	1590.0	1579.0
45°	7732.7	4569.2	1680.3	1962.2	2362.0	2590.4	2314.1	1840.6	1590.0	1531.0	1531.0
47.5°	7955.7	4222.9	1636.1	1953.0	2404.4	2573.9	2183.3	1803.8	1555.0	1562.4	1597.4
50°	8176.8	3922.6	1602.9	1932.7	2441.3	2564.7	2129.8	1801.9	1564.3	1658.2	1720.9
52.5°	8432.9	3710.7	1562.4	1899.6	2441.3	2505.8	2113.3	1838.8	1590.0	1617.7	1645.3
55°	8742.4	3644.4	1510.8	1827.7	2397.0	2358.3	2104.1	1892.2	1608.5	1544.0	1555.0
57.5°	9151.4	3751.2	1461.1	1737.4	2295.7	2205.4	2100.4	1907.0	1566.1	1512.6	1501.6
60°	9626.8	3963.1	1446.4	1645.3	2157.5	2074.6	2078.3	1864.6	1507.2	1451.8	1461.1
62.5°	9960.3	4090.2	1437.1	1575.3	2006.5	1930.9	2024.9	1812.9	1481.3	1433.4	1442.7
65°	9960.3	3935.5	1352.3	1468.5	1811.1	1757.7	1960.4	1748.5	1448.2	1392.9	1383.7
67.5°	9582.5	3484.1	1223.4	1308.2	1595.5	1560.6	1870.0	1671.1	1398.4	1356.0	1333.9
70°	8598.7	2642.1	1061.3	1120.2	1322.9	1354.2	1754.0	1566.1	1315.5	1263.9	1230.7
71°	8165.7	2301.2	993.1	1024.4	1217.9	1263.9	1698.7	1521.9	1278.7	1205.0	1146.0
72.5°	7331.1	1938.3	889.9	902.8	1041.0	1123.9	1582.7	1437.1	1208.7	1103.6	1037.3
75°	5569.7	1415.0	716.7	709.4	770.1	891.7	1339.5	1280.5	1059.4	917.5	878.8
77.5°	2406.3	770.1	536.1	541.7	523.3	676.2	1053.9	1099.9	908.4	746.2	711.1
80°	729.6	444.0	366.7	374.0	350.0	453.2	742.5	862.3	729.6	580.4	532.4
82.5°	374.0	265.3	250.5	246.9	222.9	256.1	449.6	589.5	521.4	363.0	320.6
85°	162.1	141.9	123.5	119.8	105.0	92.1	160.3	294.8	276.4	202.7	193.4
87.5°	40.5	36.8	24.0	22.1	12.9	1.9	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)