

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: P522850

Luminaire Tested: **GALN-SA7C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45649 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

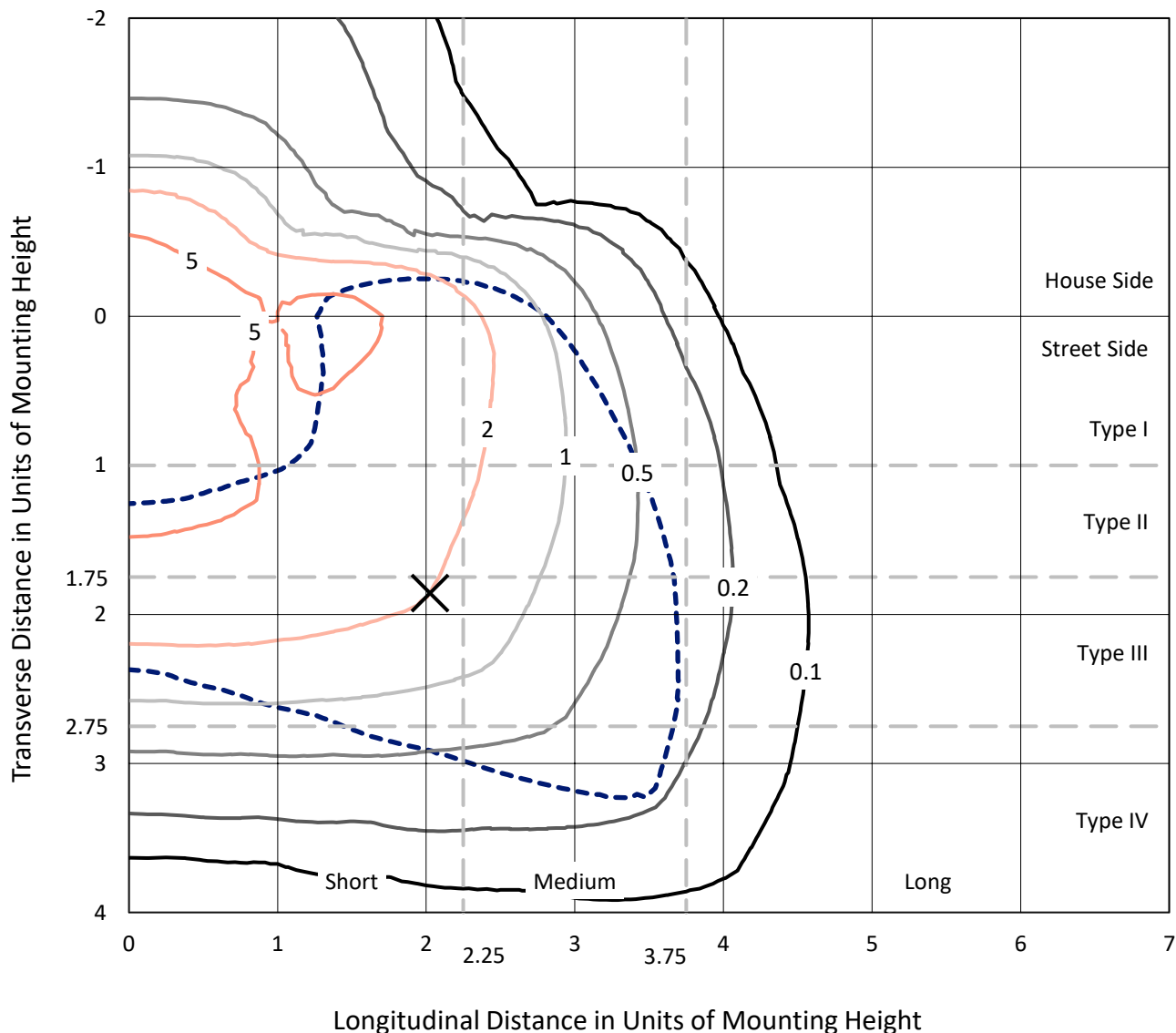
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

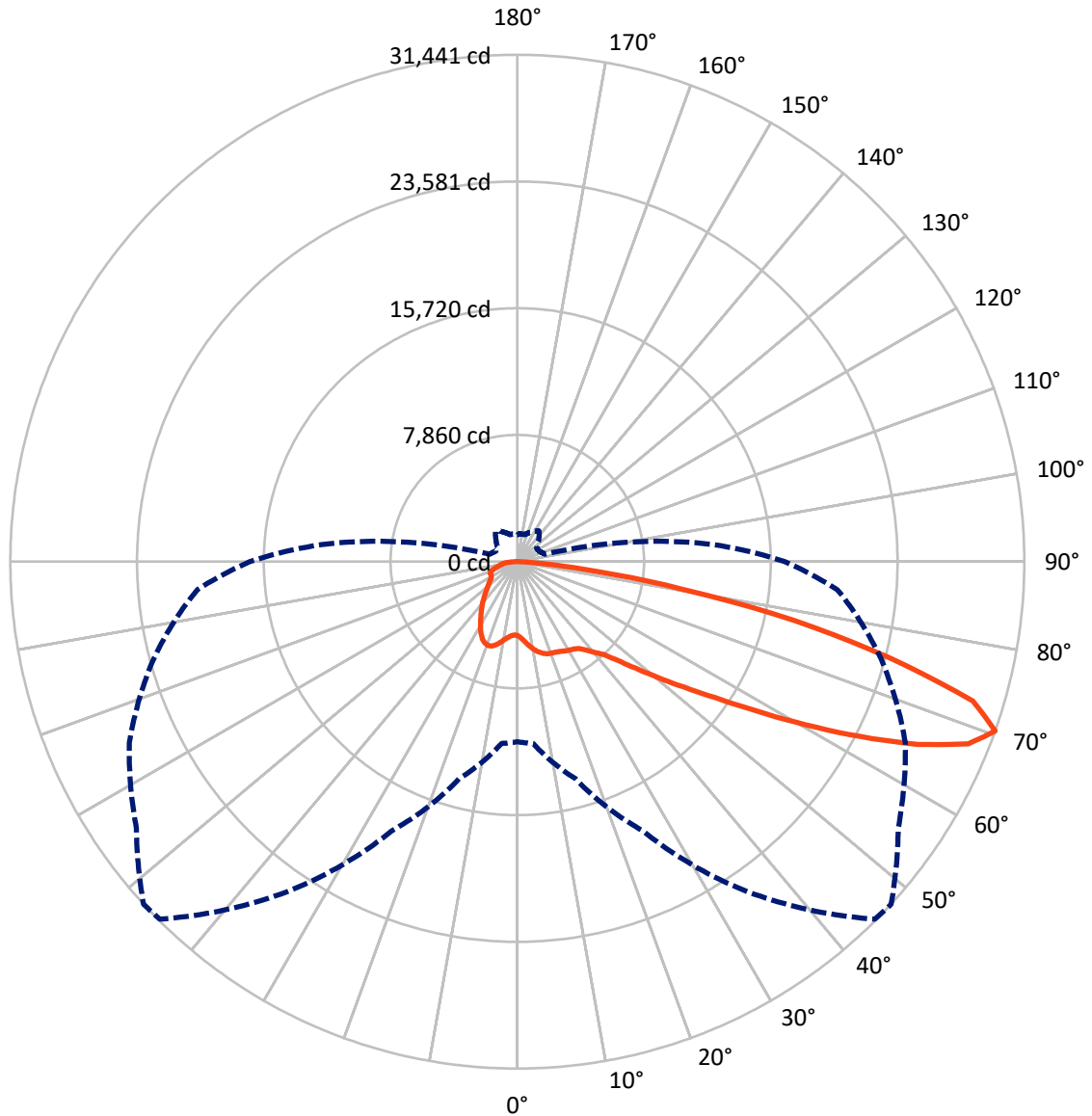
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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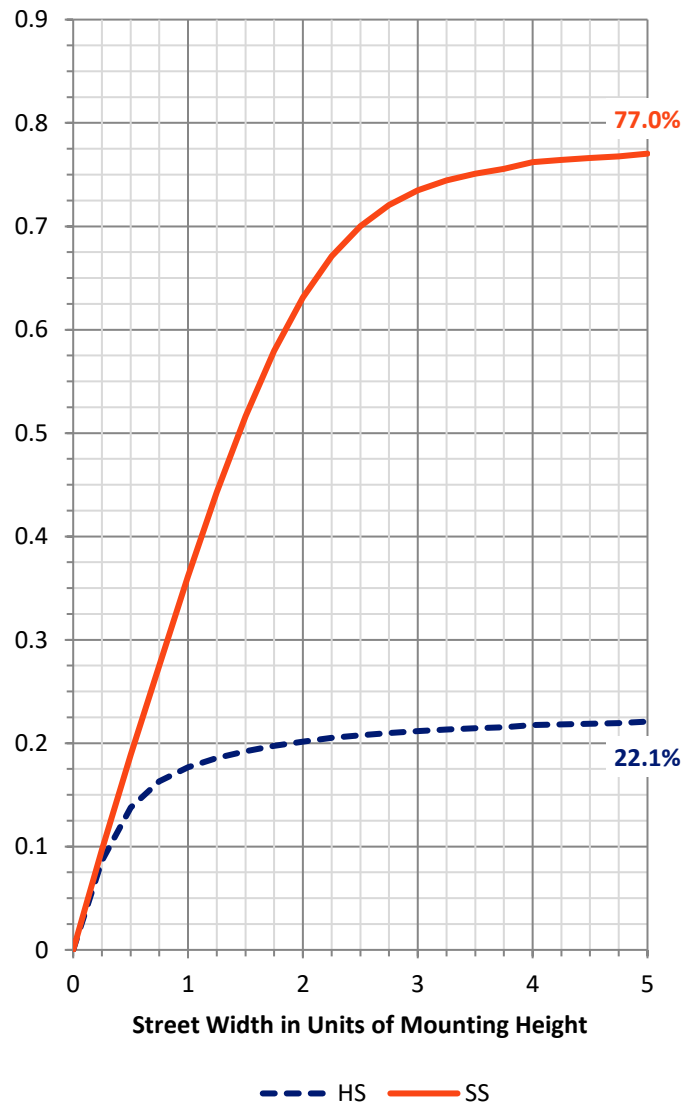
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10335.8	0.0	10335.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	35313.2	0.0	35313.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	45649.0	0.0	45649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.4	1.0
10°-20°	1579.2	3.5
20°-30°	2626.1	5.8
30°-40°	3722.2	8.2
40°-50°	5494.7	12.0
50°-60°	9517.1	20.8
60°-70°	13443.2	29.4
70°-80°	7727.9	16.9
80°-90°	1066.3	2.3
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°	45649.0	100.0
0°-180°	45649.0	100.0



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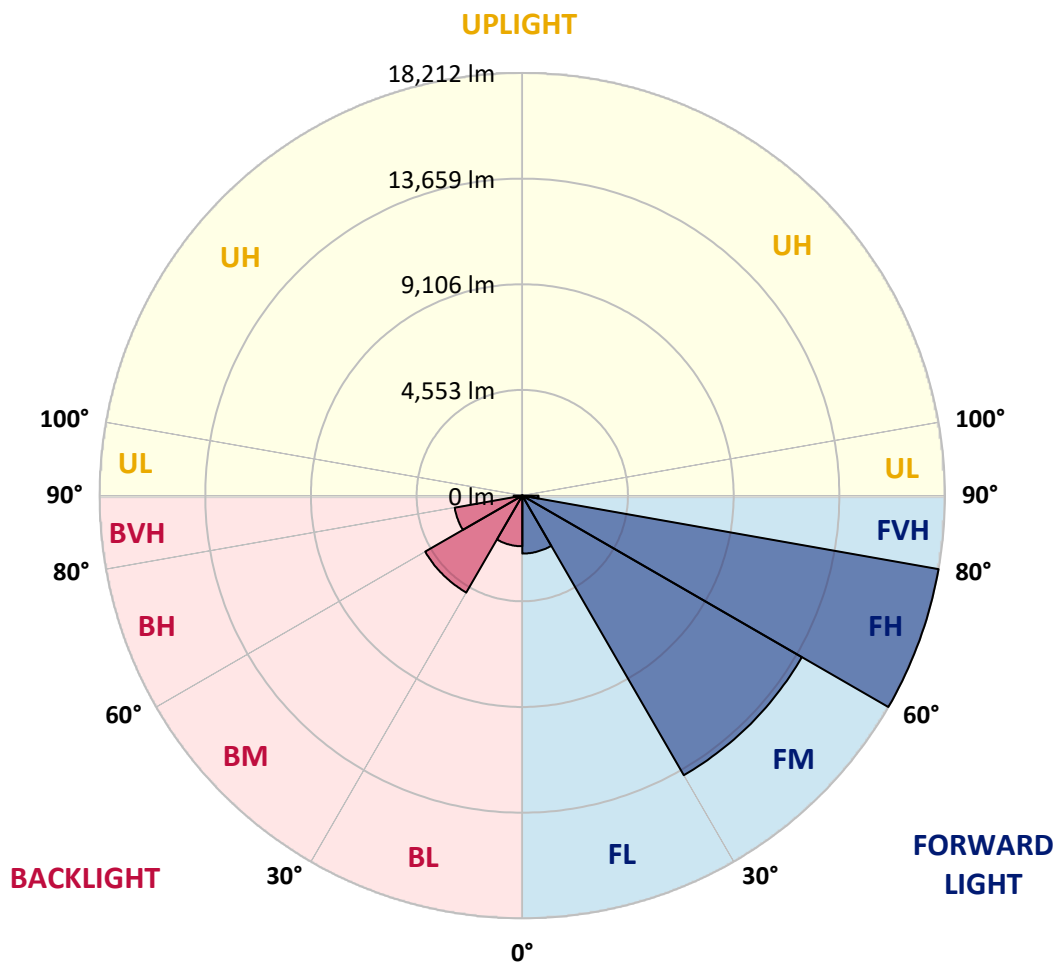
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2496.3	5.5			
FM	(30°-60°)	13908.4	30.5			
FH	(60°-80°)	18212.0	39.9			G5
FVH	(80°-90°)	696.5	1.5			G4/750
BL	(0°-30°)	2181.4	4.8	B3/2500		
BM	(30°-60°)	4825.6	10.6	B3/5000		
BH	(60°-80°)	2959.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	369.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6
2.5°	4878.2	4861.1	4858.6	4822.0	4802.5	4765.8	4751.2	4717.0	4675.4	4633.9	4594.8
5°	5261.7	5261.7	5244.6	5193.3	5112.7	5029.6	4993.0	4927.0	4809.8	4714.5	4633.9
7.5°	5655.0	5659.9	5625.7	5549.9	5435.1	5300.8	5266.6	5168.9	5002.8	4863.5	4743.8
10°	5994.5	5994.5	5948.1	5845.5	5701.4	5554.8	5520.6	5410.7	5225.1	5051.6	4895.3
12.5°	6253.5	6253.5	6192.4	6058.0	5901.7	5769.8	5730.7	5625.7	5452.2	5259.3	5061.4
15°	6422.0	6409.8	6341.4	6189.9	6038.5	5923.7	5896.8	5808.9	5650.1	5454.7	5232.4
17.5°	6429.3	6424.4	6358.5	6231.5	6099.6	6021.4	6004.3	5945.7	5821.1	5635.4	5400.9
20°	6287.7	6297.4	6253.5	6163.1	6099.6	6065.4	6058.0	6038.5	5950.6	5777.1	5542.6
22.5°	6136.2	6153.3	6111.8	6062.9	6058.0	6092.2	6097.1	6102.0	6045.8	5877.3	5662.3
25°	6099.6	6111.8	6070.2	6026.3	6053.1	6143.5	6163.1	6182.6	6138.6	5997.0	5804.0
27.5°	6285.2	6275.4	6194.8	6099.6	6116.7	6238.8	6265.7	6287.7	6265.7	6143.5	5979.9
30°	6810.4	6778.6	6617.4	6339.0	6251.0	6336.5	6363.4	6424.4	6424.4	6334.1	6170.4
32.5°	7689.8	7628.7	7333.2	6786.0	6480.6	6429.3	6456.2	6556.4	6607.7	6536.8	6358.5
35°	8757.3	8693.8	8271.2	7535.9	6900.8	6615.0	6607.7	6720.0	6856.8	6698.0	6466.0
37.5°	9829.7	9763.7	9255.6	8430.0	7513.9	7005.8	6961.9	7000.9	7059.6	6768.9	6615.0
40°	10902.0	10823.9	10379.3	9429.0	8263.8	7523.7	7408.9	7233.0	7208.6	7000.9	6903.2
42.5°	11964.6	11893.8	11669.0	10550.3	9162.8	8029.3	7853.5	7550.6	7643.4	7518.8	7433.3
45°	13037.0	13041.9	12802.5	11808.3	10247.4	8962.5	8725.5	8251.6	8471.5	8425.1	8473.9
47.5°	13987.2	13975.0	13889.5	13029.7	11593.3	10164.3	9859.0	9309.3	9685.5	9856.5	10230.3
50°	14908.1	14900.8	14905.7	14414.7	13156.7	11593.3	11256.2	10679.7	11527.4	12121.0	12790.3
52.5°	16227.2	16268.8	15973.2	15843.7	15057.1	13281.3	12910.0	12313.9	13703.9	14639.4	15946.3
55°	17551.2	17517.0	17284.9	17419.3	17045.6	15279.4	14891.0	14417.1	16127.1	17150.6	19114.6
57.5°	18330.4	18342.7	18579.6	19236.7	19500.5	17771.1	17419.3	17052.9	18850.7	19576.2	21933.5
60°	19031.5	19087.7	19769.2	21010.1	21725.9	20831.8	20519.2	20162.5	21349.7	21637.9	24381.1
62.5°	19251.4	19424.8	20614.4	22470.9	23895.0	24285.9	23897.5	23110.9	23728.9	23616.6	26039.8
65°	18154.6	18391.5	20524.0	23018.1	25832.1	27564.1	27317.3	25856.6	25756.4	25079.8	26310.9
67.5°	15267.2	15504.2	18242.5	21870.0	26633.4	30402.5	30155.8	27859.6	26987.6	25216.6	24259.0
70°	11170.7	11319.7	13938.4	18413.5	25023.6	31355.2	31440.7	28836.7	26547.9	23357.6	19918.2
72.5°	6436.7	6766.4	8600.9	12953.9	20443.4	28946.7	29540.2	26804.4	23768.0	19485.9	13926.2
75°	2767.6	2775.0	3976.8	7145.1	13845.5	23267.3	23841.3	22219.3	18665.1	13474.2	7435.7
77.5°	1316.6	1341.1	1749.0	3190.2	7621.4	16075.8	17624.5	15697.2	11937.7	6473.3	2809.2
80°	855.0	872.1	1069.9	1582.9	3737.4	9321.6	10401.3	9055.3	5266.6	2313.3	1211.6
82.5°	517.9	522.7	715.7	967.3	2056.8	4221.1	4975.9	3930.4	2247.3	1385.0	713.3
85°	315.1	317.6	434.8	598.5	1248.2	1458.3	1497.4	1485.2	1319.1	906.3	381.1
87.5°	151.5	156.3	224.7	283.4	491.0	451.9	427.5	495.9	622.9	488.6	163.7
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°	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6	4582.6
2.5°	4577.7	4570.4	4553.3	4546.0	4541.1	4543.5	4541.1	4541.1	4543.5	4543.5	4543.5
5°	4599.7	4587.5	4560.6	4560.6	4575.3	4609.5	4641.2	4665.7	4692.5	4690.1	4690.1
7.5°	4695.0	4673.0	4641.2	4651.0	4687.6	4741.4	4797.6	4851.3	4905.1	4909.9	4907.5
10°	4834.2	4812.2	4778.0	4790.2	4848.9	4929.5	5000.3	5078.5	5137.1	5154.2	5149.3
12.5°	4993.0	4949.0	4919.7	4953.9	5046.7	5154.2	5222.6	5281.2	5322.8	5347.2	5337.4
15°	5154.2	5112.7	5078.5	5149.3	5261.7	5361.8	5396.0	5405.8	5413.1	5437.6	5432.7
17.5°	5310.6	5254.4	5242.2	5335.0	5442.5	5486.4	5466.9	5425.4	5393.6	5413.1	5410.7
20°	5449.8	5405.8	5400.9	5493.8	5535.3	5493.8	5410.7	5337.4	5281.2	5286.1	5283.7
22.5°	5581.7	5547.5	5552.4	5591.5	5525.5	5383.8	5247.0	5146.9	5085.8	5098.0	5105.4
25°	5728.3	5694.1	5706.3	5642.8	5425.4	5178.6	4980.8	4895.3	4870.9	4895.3	4912.4
27.5°	5918.8	5896.8	5889.5	5645.2	5247.0	4875.7	4651.0	4619.3	4641.2	4695.0	4721.8
30°	6124.0	6124.0	6084.9	5603.7	5002.8	4511.8	4316.3	4321.2	4397.0	4472.7	4499.6
32.5°	6321.9	6363.4	6241.2	5491.3	4687.6	4157.6	4008.6	4013.4	4079.4	4172.2	4196.7
35°	6485.5	6605.2	6375.6	5286.1	4316.3	3859.6	3747.2	3681.2	3683.7	3754.5	3774.1
37.5°	6710.3	6932.5	6453.8	4980.8	3920.6	3605.5	3478.5	3363.7	3287.9	3258.6	3258.6
40°	7101.1	7428.4	6473.3	4528.9	3546.9	3363.7	3182.9	3046.1	2899.6	2767.6	2743.2
42.5°	7763.1	8175.9	6434.2	4008.6	3209.8	3097.4	2921.5	2753.0	2550.2	2364.6	2349.9
45°	8935.6	9148.1	6329.2	3468.7	2909.3	2840.9	2669.9	2486.7	2271.8	2105.7	2093.4
47.5°	10814.1	10513.6	6189.9	2989.9	2635.7	2616.2	2484.3	2271.8	2056.8	1942.0	1929.8
50°	13557.3	12663.2	6170.4	2643.1	2415.9	2425.7	2318.2	2122.8	1934.7	1839.4	1824.7
52.5°	16859.9	15259.9	6299.9	2398.8	2222.9	2259.5	2205.8	2025.0	1858.9	1778.3	1763.7
55°	20064.8	17595.2	6378.0	2208.3	2042.1	2110.5	2117.9	1966.4	1815.0	1734.4	1724.6
57.5°	22666.3	19354.0	6031.2	2034.8	1885.8	1990.8	2044.6	1932.2	1793.0	1731.9	1722.1
60°	24476.4	20184.5	5044.3	1880.9	1771.0	1895.6	2017.7	1934.7	1846.7	1854.1	1858.9
62.5°	25052.9	19815.6	3783.8	1766.1	1692.8	1863.8	2061.7	2034.8	1944.4	2000.6	2010.4
65°	24097.8	18291.4	2743.2	1675.7	1624.4	1885.8	2193.6	2108.1	1910.2	1951.8	1951.8
67.5°	20900.2	15758.2	2135.0	1592.7	1546.3	1927.3	2325.5	2100.8	1829.6	1878.5	1834.5
70°	16579.0	12189.4	1778.3	1499.9	1463.2	1866.3	2337.7	2025.0	1734.4	1744.1	1661.1
72.5°	11002.2	8014.7	1529.2	1411.9	1336.2	1678.2	2237.6	1927.3	1641.5	1585.3	1502.3
75°	5391.2	3996.3	1333.7	1302.0	1170.1	1460.8	2100.8	1834.5	1541.4	1453.4	1407.0
77.5°	2088.6	1700.2	1138.3	1162.8	1018.6	1287.3	1920.0	1702.6	1409.5	1289.8	1253.1
80°	1013.7	964.9	933.1	969.8	837.9	1096.8	1753.9	1587.8	1287.3	1155.4	1101.7
82.5°	630.2	596.0	715.7	754.8	644.9	1001.5	1663.5	1490.1	1133.4	957.6	913.6
85°	320.0	342.0	478.8	515.4	461.7	796.3	1370.4	1118.8	818.3	679.1	684.0
87.5°	122.1	163.7	251.6	271.1	246.7	420.2	754.8	652.2	525.2	356.6	329.8
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)