

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: P648682

Luminaire Tested: **GALN-SA9B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648682
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-SA9B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40420 lumens
Efficiency: N/A
Efficacy: 111.0 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

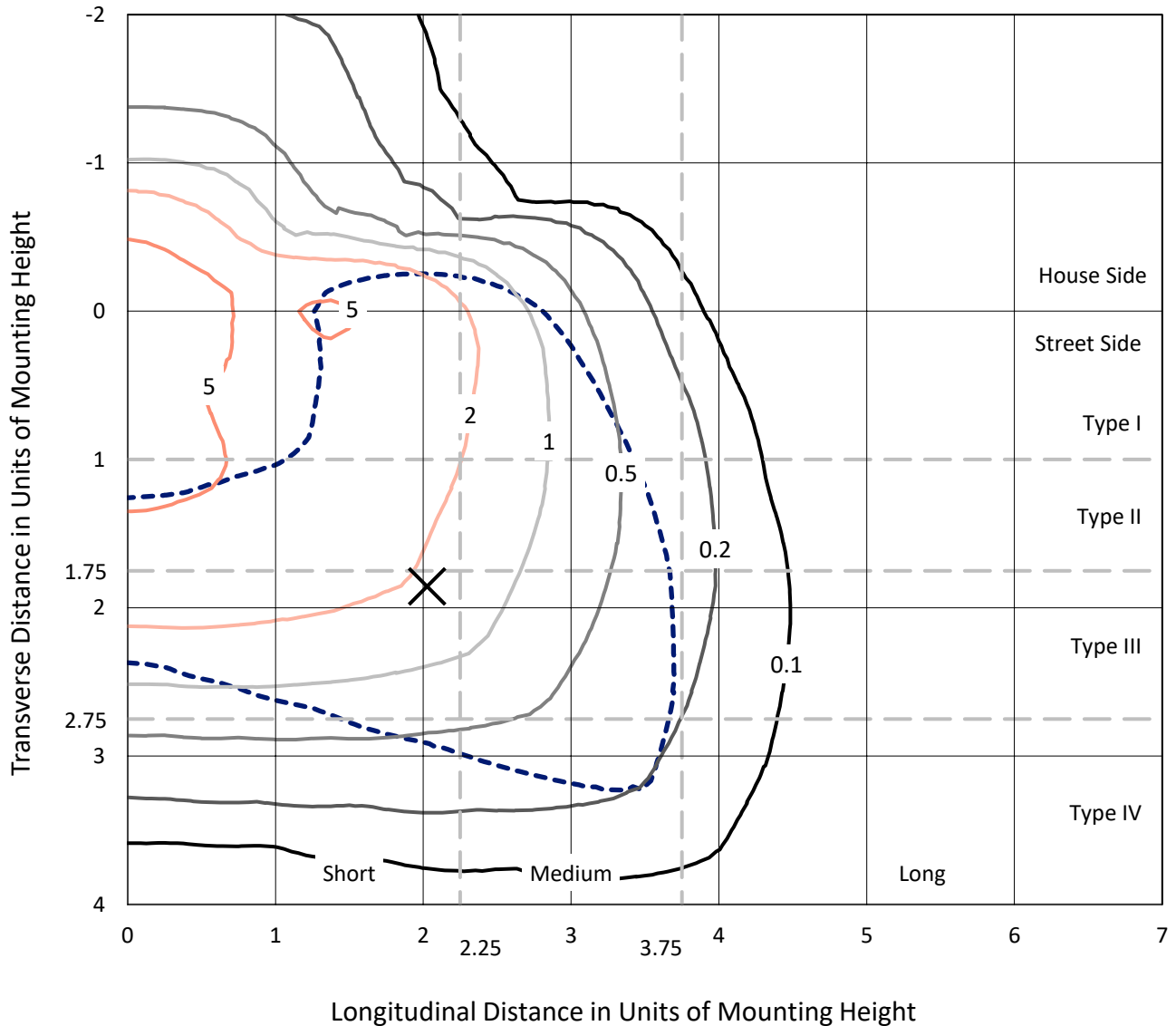
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

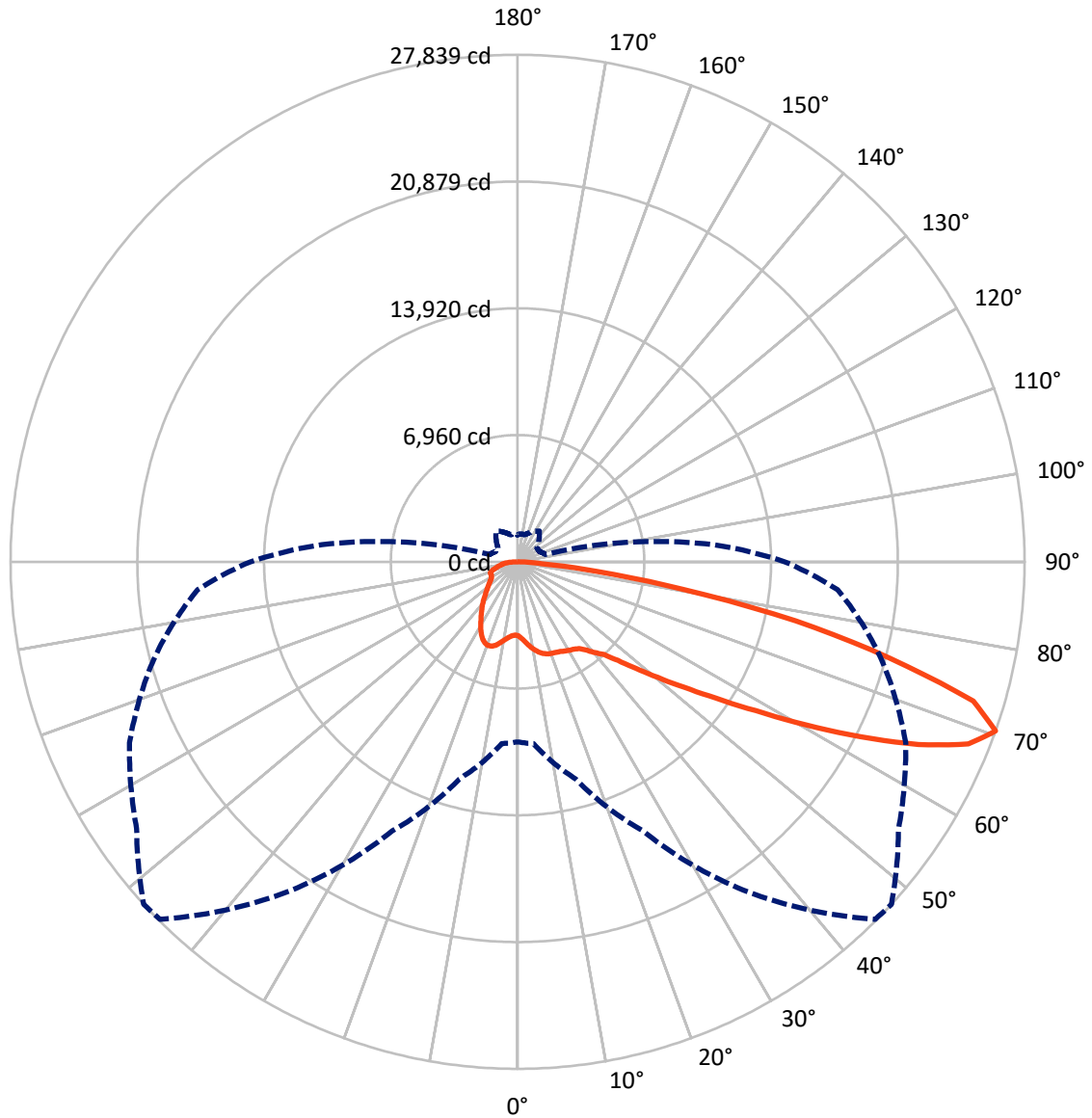
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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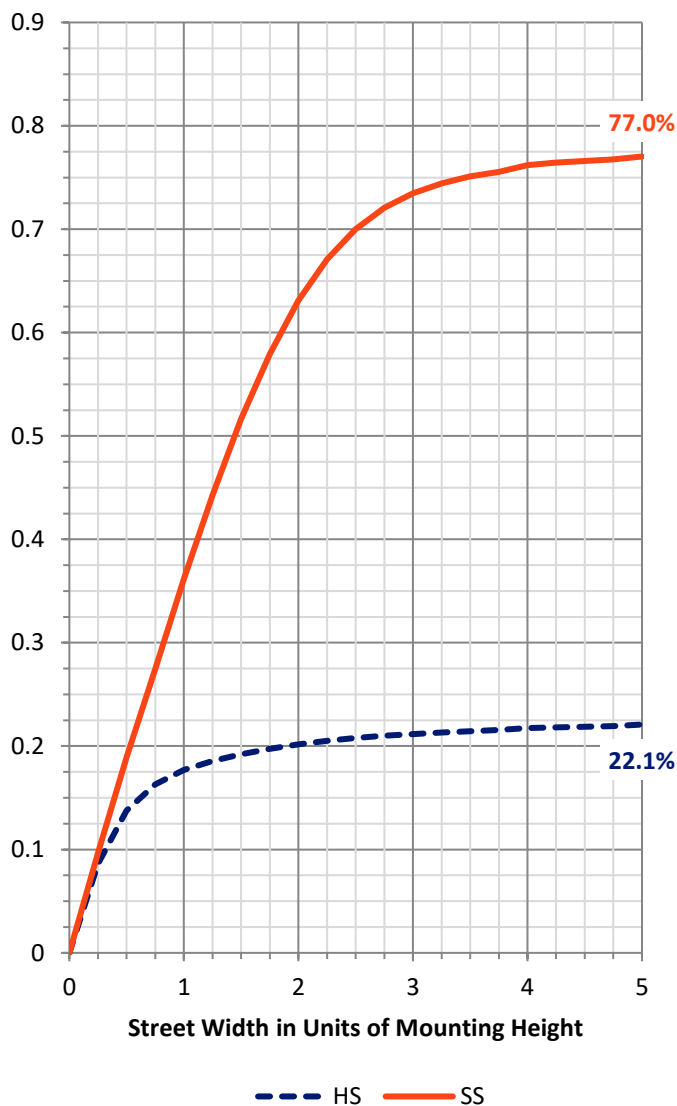
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9151.9	0.0	9151.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31268.1	0.0	31268.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	40420.0	0.0	40420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	1.0
10°-20°	1398.3	3.5
20°-30°	2325.3	5.8
30°-40°	3295.8	8.2
40°-50°	4865.3	12.0
50°-60°	8426.9	20.8
60°-70°	11903.3	29.4
70°-80°	6842.7	16.9
80°-90°	944.1	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°	40420.0	100.0
0°-180°	40420.0	100.0

Coefficient of Utilization

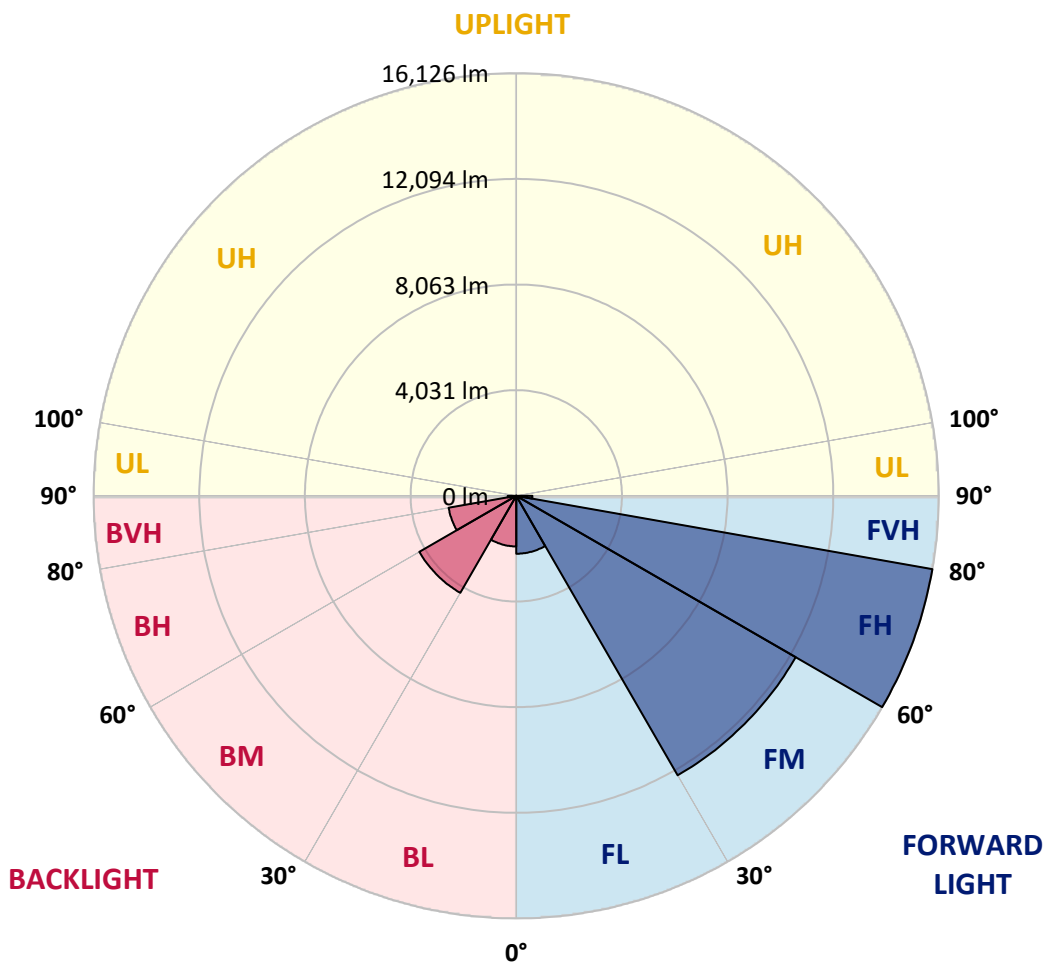


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.3	5.5			
FM (30°-60°)	12315.2	30.5			
FH (60°-80°)	16125.9	39.9			G5
FVH (80°-90°)	616.7	1.5			G4/750
BL (0°-30°)	1931.6	4.8	B3/2500		
BM (30°-60°)	4272.9	10.6	B3/5000		
BH (60°-80°)	2620.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	327.4	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°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	4319.4	4304.2	4302.1	4269.6	4252.3	4219.9	4206.9	4176.7	4139.9	4103.1	4068.5
5°	4659.0	4659.0	4643.8	4598.4	4527.1	4453.5	4421.1	4362.6	4258.8	4174.5	4103.1
7.5°	5007.2	5011.5	4981.3	4914.2	4812.6	4693.6	4663.3	4576.8	4429.7	4306.4	4200.4
10°	5307.9	5307.9	5266.8	5175.9	5048.3	4918.6	4888.3	4790.9	4626.5	4473.0	4334.5
12.5°	5537.1	5537.1	5483.0	5364.1	5225.7	5108.8	5074.2	4981.3	4827.7	4656.8	4481.7
15°	5686.4	5675.6	5615.0	5480.9	5346.8	5245.2	5221.4	5143.4	5002.9	4829.9	4633.0
17.5°	5692.9	5688.6	5630.2	5517.6	5400.9	5331.7	5316.5	5264.6	5154.3	4989.9	4782.3
20°	5567.4	5576.1	5537.1	5457.1	5400.9	5370.6	5364.1	5346.8	5269.0	5115.3	4907.7
22.5°	5433.3	5448.4	5411.7	5368.4	5364.1	5394.4	5398.7	5403.0	5353.3	5204.1	5013.7
25°	5400.9	5411.7	5374.9	5336.0	5359.8	5439.8	5457.1	5474.4	5435.5	5310.0	5139.1
27.5°	5565.3	5556.6	5485.2	5400.9	5416.0	5524.1	5547.9	5567.4	5547.9	5439.8	5294.9
30°	6030.3	6002.2	5859.4	5612.9	5534.9	5610.7	5634.5	5688.6	5688.6	5608.6	5463.6
32.5°	6809.0	6754.9	6493.2	6008.7	5738.3	5692.9	5716.7	5805.3	5850.7	5788.0	5630.2
35°	7754.1	7697.9	7323.7	6672.6	6110.3	5857.2	5850.7	5950.3	6071.4	5930.8	5725.3
37.5°	8703.7	8645.3	8195.4	7464.3	6653.2	6203.3	6164.4	6199.0	6250.9	5993.6	5857.2
40°	9653.2	9584.0	9190.4	8349.0	7317.2	6661.8	6560.2	6404.5	6382.9	6199.0	6112.5
42.5°	10594.1	10531.4	10332.4	9341.7	8113.2	7109.6	6953.9	6685.6	6767.9	6657.5	6581.8
45°	11543.6	11548.0	11336.0	10455.7	9073.6	7935.9	7726.0	7306.4	7501.1	7460.0	7503.3
47.5°	12385.0	12374.2	12298.5	11537.1	10265.4	9000.0	8729.7	8243.0	8576.0	8727.5	9058.4
50°	13200.4	13193.9	13198.3	12763.5	11649.6	10265.4	9966.9	9456.4	10207.0	10732.5	11325.2
52.5°	14368.4	14405.2	14143.5	14028.9	13332.4	11760.0	11431.2	10903.4	12134.2	12962.6	14119.7
55°	15540.7	15510.4	15305.0	15423.9	15093.0	13529.2	13185.3	12765.7	14279.7	15186.1	16925.0
57.5°	16230.7	16241.5	16451.4	17033.2	17266.8	15735.4	15423.9	15099.5	16691.4	17333.8	19421.1
60°	16851.5	16901.2	17504.7	18603.5	19237.2	18445.6	18168.7	17852.9	18904.1	19159.4	21588.3
62.5°	17046.1	17199.8	18253.1	19896.9	21157.9	21504.0	21160.1	20463.6	21010.9	20911.3	23057.0
65°	16075.0	16284.8	18173.0	20381.4	22873.2	24406.7	24188.2	22894.8	22806.1	22207.0	23297.1
67.5°	13518.4	13728.2	16152.9	19364.8	23582.6	26920.0	26701.6	24668.4	23896.2	22328.1	21480.2
70°	9891.2	10023.1	12341.7	16304.3	22157.2	27763.5	27839.3	25533.6	23506.9	20682.1	17636.7
72.5°	5699.4	5991.4	7615.7	11470.1	18101.7	25630.9	26156.5	23734.0	21045.5	17253.8	12330.9
75°	2450.6	2457.1	3521.3	6326.6	12259.6	20602.1	21110.3	19674.1	16527.1	11930.8	6584.0
77.5°	1165.8	1187.4	1548.7	2824.8	6748.4	14234.3	15605.7	13899.1	10570.3	5731.8	2487.4
80°	757.0	772.2	947.4	1401.6	3309.3	8253.8	9209.8	8018.0	4663.3	2048.3	1072.8
82.5°	458.5	462.8	633.8	856.5	1821.2	3737.6	4405.9	3480.2	1989.9	1226.4	631.6
85°	279.0	281.2	385.0	529.9	1105.3	1291.2	1325.9	1315.0	1168.0	802.4	337.4
87.5°	134.1	138.4	199.0	250.9	434.7	400.1	378.5	439.1	551.5	432.6	144.9
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°	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7	4057.7
2.5°	4053.4	4046.9	4031.7	4025.2	4020.9	4023.1	4020.9	4020.9	4023.1	4023.1	4023.1
5°	4072.9	4062.0	4038.2	4038.2	4051.2	4081.5	4109.6	4131.2	4155.0	4152.9	4152.9
7.5°	4157.2	4137.7	4109.6	4118.3	4150.7	4198.3	4248.0	4295.6	4343.2	4347.5	4345.3
10°	4280.5	4261.0	4230.7	4241.5	4293.4	4364.8	4427.6	4496.8	4548.7	4563.8	4559.5
12.5°	4421.1	4382.1	4356.1	4386.4	4468.7	4563.8	4624.4	4676.3	4713.0	4734.7	4726.0
15°	4563.8	4527.1	4496.8	4559.5	4659.0	4747.6	4777.9	4786.6	4793.1	4814.7	4810.4
17.5°	4702.2	4652.5	4641.7	4723.8	4819.1	4858.0	4840.7	4803.9	4775.8	4793.1	4790.9
20°	4825.6	4786.6	4782.3	4864.5	4901.3	4864.5	4790.9	4726.0	4676.3	4680.6	4678.4
22.5°	4942.3	4912.1	4916.4	4951.0	4892.6	4767.1	4646.0	4557.3	4503.3	4514.1	4520.6
25°	5072.1	5041.8	5052.6	4996.4	4803.9	4585.4	4410.2	4334.5	4312.9	4334.5	4349.6
27.5°	5240.9	5221.4	5214.9	4998.6	4646.0	4317.2	4118.3	4090.2	4109.6	4157.2	4181.0
30°	5422.5	5422.5	5387.9	4961.8	4429.7	3994.9	3821.9	3826.3	3893.3	3960.3	3984.1
32.5°	5597.7	5634.5	5526.3	4862.3	4150.7	3681.4	3549.4	3553.7	3612.1	3694.3	3716.0
35°	5742.6	5848.6	5645.3	4680.6	3821.9	3417.5	3318.0	3259.6	3261.7	3324.5	3341.8
37.5°	5941.6	6138.4	5714.5	4410.2	3471.5	3192.5	3080.0	2978.4	2911.4	2885.4	2885.4
40°	6287.6	6577.5	5731.8	4010.1	3140.6	2978.4	2818.3	2697.2	2567.4	2450.6	2429.0
42.5°	6873.8	7239.4	5697.2	3549.4	2842.1	2742.6	2586.9	2437.6	2258.1	2093.7	2080.7
45°	7912.1	8100.2	5604.2	3071.4	2576.1	2515.5	2364.1	2201.9	2011.5	1864.5	1853.7
47.5°	9575.4	9309.3	5480.9	2647.5	2333.8	2316.5	2199.7	2011.5	1821.2	1719.5	1708.7
50°	12004.3	11212.7	5463.6	2340.3	2139.2	2147.8	2052.6	1879.6	1713.0	1628.7	1615.7
52.5°	14928.7	13511.9	5578.2	2124.0	1968.3	2000.7	1953.1	1793.1	1646.0	1574.6	1561.6
55°	17766.4	15579.7	5647.5	1955.3	1808.3	1868.8	1875.3	1741.2	1607.0	1535.7	1527.0
57.5°	20069.9	17137.0	5340.3	1801.8	1669.8	1762.8	1810.4	1710.9	1587.6	1533.5	1524.9
60°	21672.7	17872.4	4466.5	1665.4	1568.1	1678.4	1786.6	1713.0	1635.2	1641.6	1646.0
62.5°	22183.2	17545.8	3350.4	1563.8	1498.9	1650.3	1825.5	1801.8	1721.7	1771.5	1780.1
65°	21337.5	16196.1	2429.0	1483.8	1438.4	1669.8	1942.3	1866.6	1691.4	1728.2	1728.2
67.5°	18506.1	13953.1	1890.4	1410.3	1369.2	1706.5	2059.1	1860.1	1620.0	1663.3	1624.3
70°	14679.9	10793.1	1574.6	1328.0	1295.6	1652.5	2069.9	1793.1	1535.7	1544.3	1470.8
72.5°	9741.9	7096.6	1354.0	1250.2	1183.1	1486.0	1981.2	1706.5	1453.5	1403.8	1330.2
75°	4773.6	3538.6	1181.0	1152.8	1036.1	1293.4	1860.1	1624.3	1364.8	1286.9	1245.8
77.5°	1849.3	1505.4	1008.0	1029.6	901.9	1139.9	1700.0	1507.6	1248.0	1142.0	1109.6
80°	897.6	854.3	826.2	858.7	741.9	971.2	1553.0	1405.9	1139.9	1023.1	975.5
82.5°	558.0	527.7	633.8	668.4	571.0	886.8	1473.0	1319.4	1003.6	847.9	808.9
85°	283.4	302.8	423.9	456.4	408.8	705.1	1213.4	990.7	724.6	601.3	605.7
87.5°	108.1	144.9	222.8	240.1	218.5	372.0	668.4	577.5	465.0	315.8	292.0
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)