

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: P648627

Luminaire Tested: **GALN-SA8B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648627
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-SA8B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 36003.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

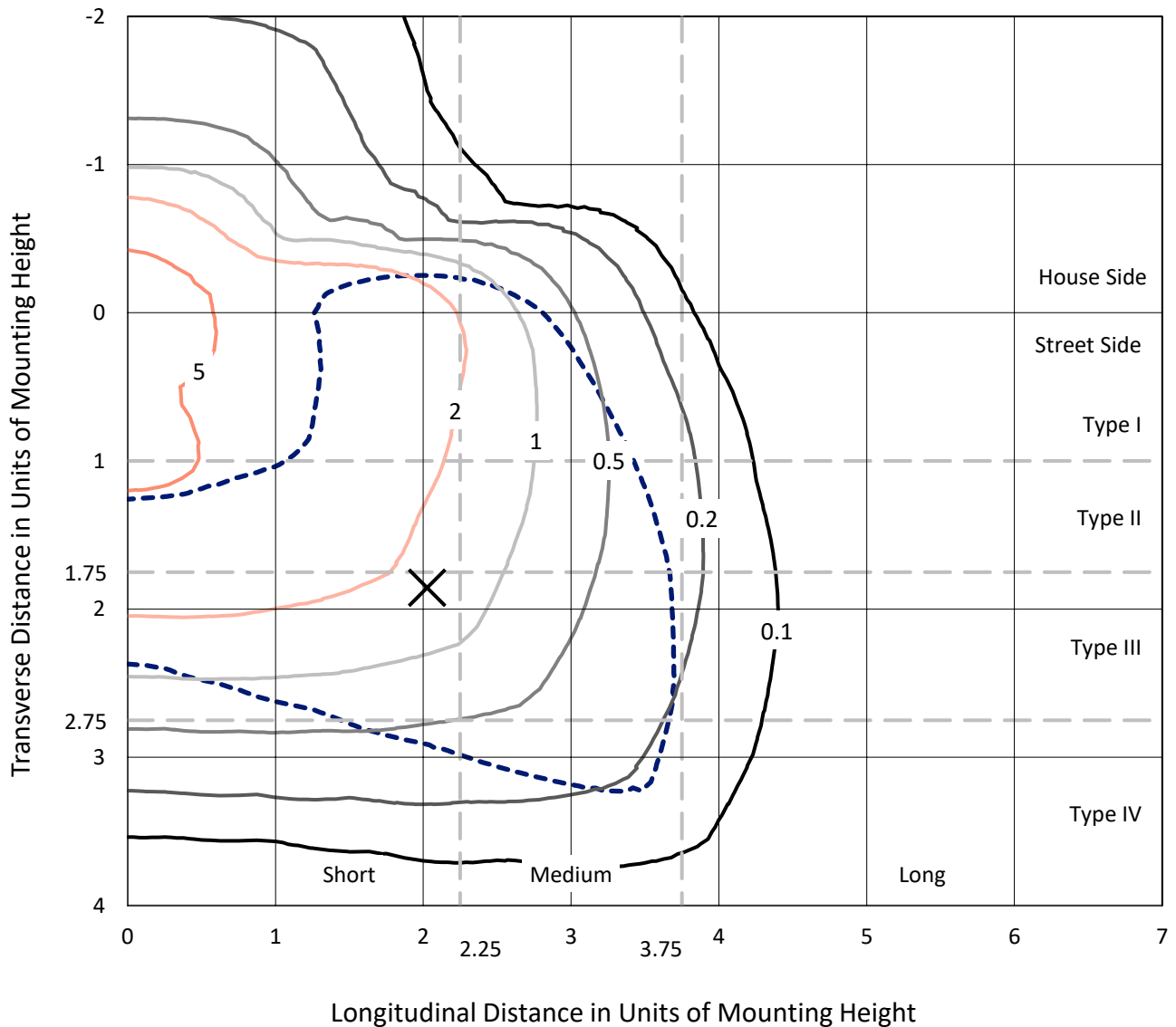
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

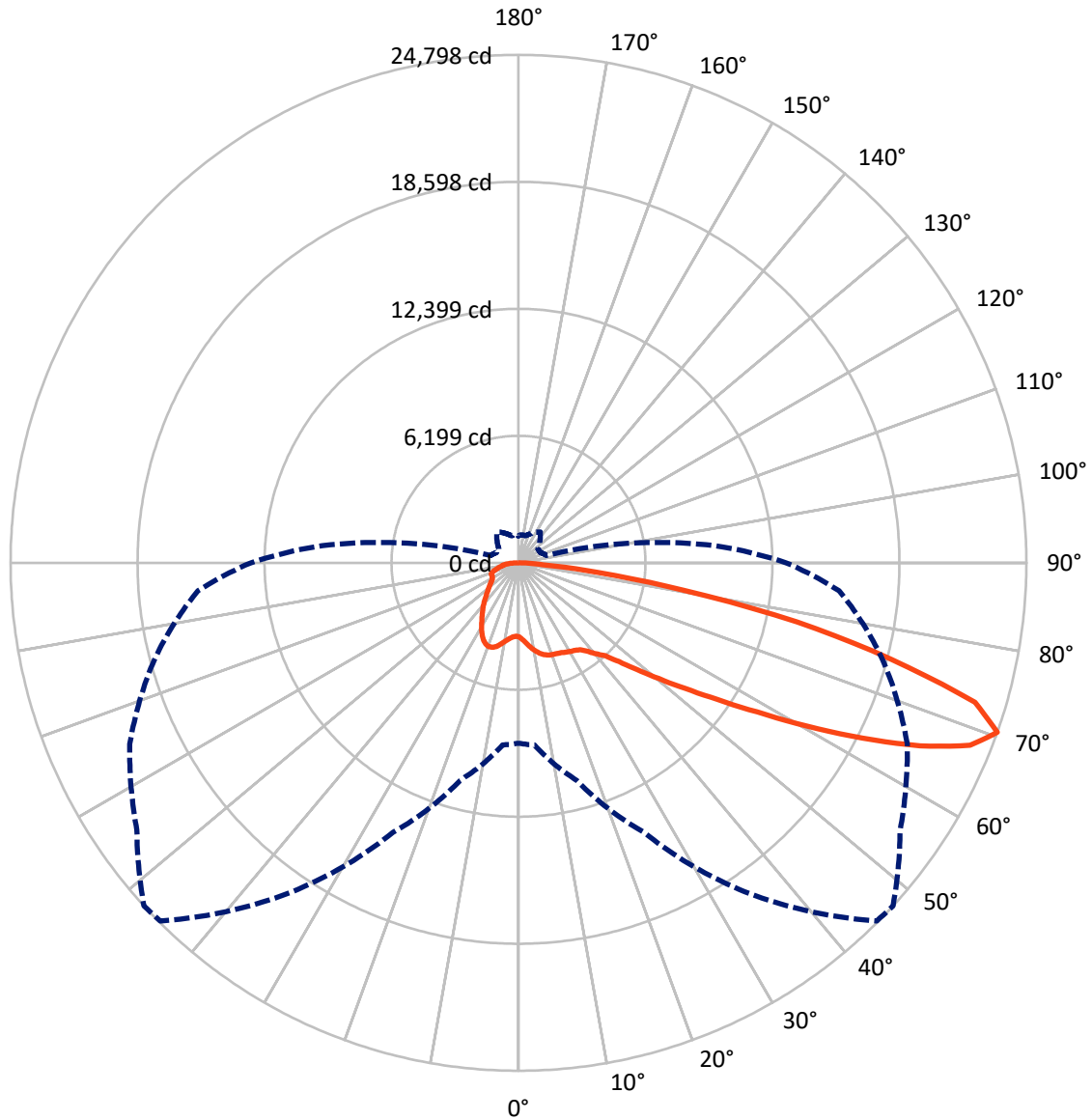
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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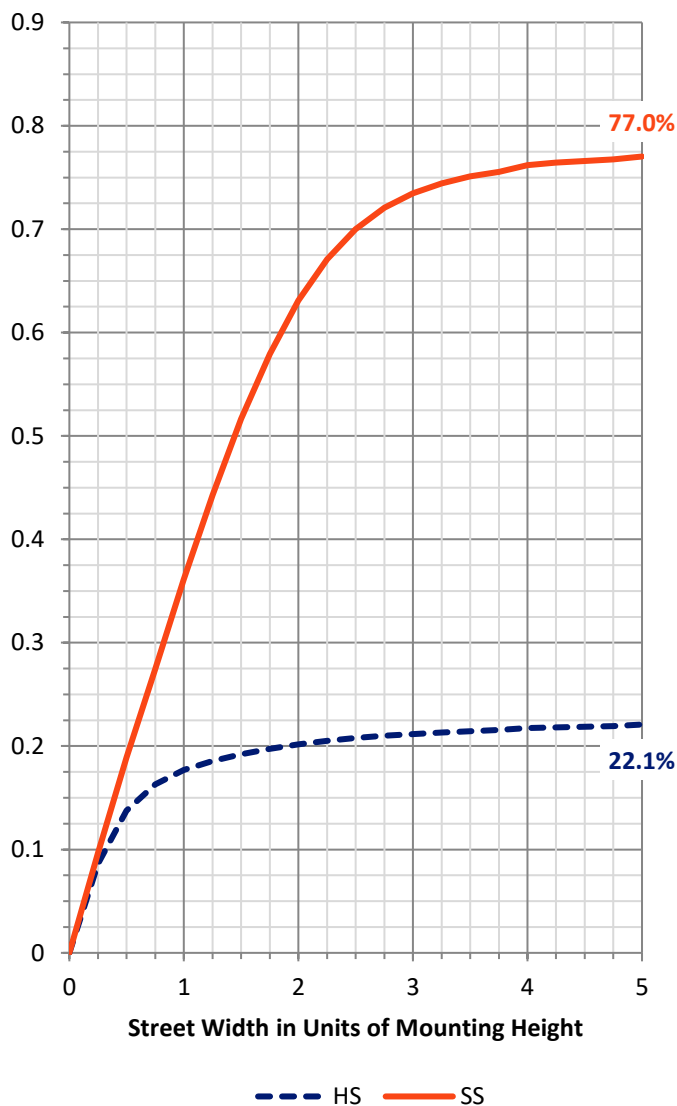
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8152.0	0.0	8152.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27851.9	0.0	27851.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	36003.9	0.0	36003.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.0
10°-20°	1245.5	3.5
20°-30°	2071.3	5.8
30°-40°	2935.7	8.2
40°-50°	4333.7	12.0
50°-60°	7506.2	20.8
60°-70°	10602.8	29.4
70°-80°	6095.1	16.9
80°-90°	841.0	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°	36003.9	100.0
0°-180°	36003.9	100.0

Coefficient of Utilization

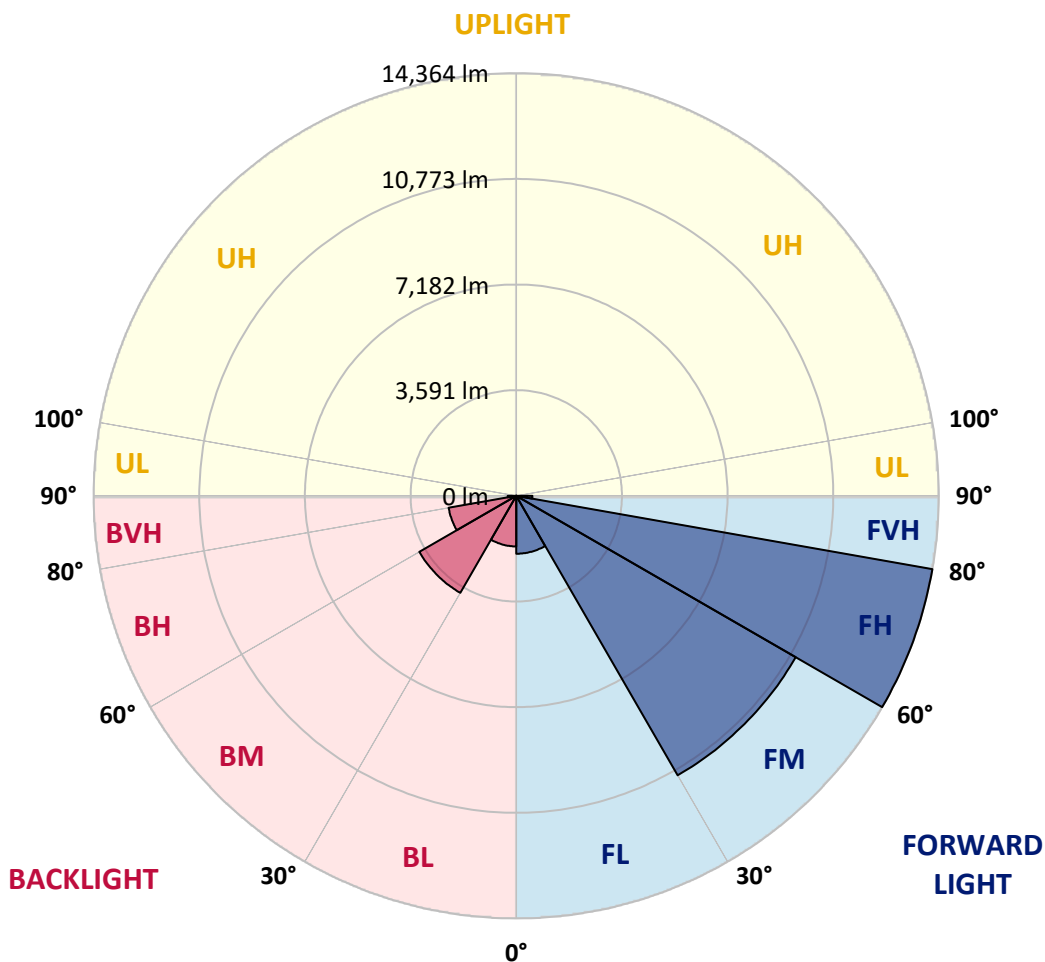


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.8	5.5			
FM (30°-60°)	10969.7	30.5			
FH (60°-80°)	14364.1	39.9			G5
FVH (80°-90°)	549.3	1.5			G4/750
BL (0°-30°)	1720.5	4.8	B3/2500		
BM (30°-60°)	3806.0	10.6	B3/5000		
BH (60°-80°)	2333.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	291.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3847.5	3834.0	3832.1	3803.2	3787.8	3758.9	3747.3	3720.3	3687.5	3654.8	3624.0
5°	4150.0	4150.0	4136.5	4096.0	4032.4	3966.9	3938.0	3886.0	3793.6	3718.4	3654.8
7.5°	4460.1	4464.0	4437.0	4377.3	4286.8	4180.8	4153.8	4076.8	3945.8	3835.9	3741.5
10°	4728.0	4728.0	4691.3	4610.5	4496.8	4381.1	4354.2	4267.5	4121.1	3984.3	3861.0
12.5°	4932.2	4932.2	4884.0	4778.0	4654.8	4550.7	4519.9	4437.0	4300.2	4148.0	3992.0
15°	5065.1	5055.4	5001.6	4882.1	4762.6	4672.1	4650.9	4581.5	4456.3	4302.2	4126.9
17.5°	5070.9	5067.0	5015.0	4914.8	4810.8	4749.1	4735.7	4689.4	4591.2	4444.7	4259.8
20°	4959.1	4966.9	4932.2	4860.9	4810.8	4783.8	4778.0	4762.6	4693.3	4556.5	4371.5
22.5°	4839.7	4853.2	4820.5	4781.9	4778.0	4805.0	4808.9	4812.7	4768.4	4635.4	4465.9
25°	4810.8	4820.5	4787.7	4753.0	4774.2	4845.4	4860.9	4876.3	4841.6	4729.9	4577.7
27.5°	4957.3	4949.5	4885.9	4810.8	4824.3	4920.6	4941.8	4959.1	4941.8	4845.4	4716.4
30°	5371.5	5346.4	5219.2	4999.6	4930.2	4997.7	5018.9	5067.0	5067.0	4995.8	4866.7
32.5°	6065.0	6016.9	5783.7	5352.2	5111.3	5070.9	5092.1	5171.1	5211.6	5155.7	5015.0
35°	6907.0	6856.9	6523.6	5943.7	5442.7	5217.3	5211.6	5300.1	5408.0	5282.8	5099.8
37.5°	7752.8	7700.7	7300.0	6648.8	5926.3	5525.6	5490.9	5521.7	5568.0	5338.7	5217.3
40°	8598.5	8536.9	8186.3	7436.8	6517.8	5934.0	5843.5	5704.8	5685.5	5521.7	5444.7
42.5°	9436.6	9380.7	9203.5	8321.1	7226.8	6332.8	6194.2	5955.2	6028.4	5930.2	5862.7
45°	10282.4	10286.3	10097.5	9313.3	8082.2	7068.8	6881.9	6508.1	6681.6	6644.9	6683.5
47.5°	11031.9	11022.3	10954.8	10276.6	9143.8	8016.7	7775.9	7342.4	7639.1	7773.9	8068.7
50°	11758.2	11752.4	11756.3	11369.1	10376.9	9143.8	8877.9	8423.2	9091.8	9560.0	10087.9
52.5°	12798.6	12831.3	12598.2	12496.1	11875.8	10475.1	10182.2	9712.2	10808.4	11546.3	12577.0
55°	13842.8	13815.9	13632.8	13738.8	13444.0	12051.1	11744.8	11371.0	12719.6	13526.9	15075.9
57.5°	14457.5	14467.1	14653.9	15172.2	15380.3	14016.2	13738.8	13449.8	14867.8	15440.1	17299.2
60°	15010.3	15054.7	15592.2	16570.9	17135.5	16430.3	16183.7	15902.4	16838.7	17066.1	19229.7
62.5°	15183.8	15320.6	16258.8	17723.0	18846.3	19154.5	18848.2	18227.8	18715.3	18626.6	20537.9
65°	14318.7	14505.6	16187.6	18154.6	20374.1	21740.1	21545.5	20393.4	20314.4	19780.7	20751.8
67.5°	12041.4	12228.3	14388.1	17249.1	21006.1	23978.8	23784.3	21973.3	21285.4	19888.6	19133.4
70°	8810.5	8928.0	10993.3	14522.9	19736.4	24730.2	24797.7	22743.9	20938.6	18422.4	15709.7
72.5°	5076.7	5336.8	6783.7	10216.9	16124.0	22830.6	23298.7	21140.9	18746.1	15368.7	10983.7
75°	2182.8	2188.6	3136.5	5635.4	10920.1	18351.2	18803.9	17524.6	14721.4	10627.3	5864.7
77.5°	1038.5	1057.8	1379.5	2516.2	6011.1	12679.1	13900.7	12380.6	9415.4	5105.6	2215.7
80°	674.3	687.8	843.8	1248.5	2947.8	7352.1	8203.6	7142.1	4153.8	1824.5	955.6
82.5°	408.4	412.3	564.5	763.0	1622.2	3329.2	3924.6	3100.0	1772.5	1092.4	562.6
85°	248.5	250.5	343.0	472.0	984.5	1150.2	1181.0	1171.4	1040.4	714.8	300.5
87.5°	119.5	123.3	177.3	223.5	387.3	356.4	337.2	391.1	491.3	385.3	129.1
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°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3610.5	3604.7	3591.2	3585.4	3581.6	3583.6	3581.6	3581.6	3583.6	3583.6	3583.6
5°	3627.9	3618.2	3597.0	3597.0	3608.6	3635.5	3660.6	3679.9	3701.1	3699.1	3699.1
7.5°	3703.0	3685.7	3660.6	3668.3	3697.2	3739.6	3783.9	3826.3	3868.6	3872.6	3870.6
10°	3812.8	3795.4	3768.5	3778.1	3824.3	3887.9	3943.8	4005.4	4051.7	4065.2	4061.3
12.5°	3938.0	3903.3	3880.2	3907.2	3980.4	4065.2	4119.1	4165.4	4198.1	4217.4	4209.7
15°	4065.2	4032.4	4005.4	4061.3	4150.0	4229.0	4255.9	4263.7	4269.4	4288.6	4284.8
17.5°	4188.5	4144.2	4134.6	4207.8	4292.6	4327.2	4311.8	4279.0	4254.0	4269.4	4267.5
20°	4298.3	4263.7	4259.8	4333.0	4365.8	4333.0	4267.5	4209.7	4165.4	4169.2	4167.3
22.5°	4402.3	4375.4	4379.2	4410.1	4358.0	4246.3	4138.4	4059.4	4011.2	4020.9	4026.7
25°	4517.9	4491.0	4500.6	4450.5	4279.0	4084.4	3928.4	3861.0	3841.7	3861.0	3874.4
27.5°	4668.2	4650.9	4645.1	4452.5	4138.4	3845.5	3668.3	3643.2	3660.6	3703.0	3724.2
30°	4830.1	4830.1	4799.2	4419.7	3945.8	3558.5	3404.3	3408.2	3467.9	3527.6	3548.9
32.5°	4986.1	5018.9	4922.6	4331.1	3697.2	3279.1	3161.6	3165.4	3217.5	3290.7	3310.0
35°	5115.2	5209.6	5028.5	4169.2	3404.3	3044.1	2955.4	2903.4	2905.3	2961.2	2976.7
37.5°	5292.5	5467.8	5090.1	3928.4	3092.2	2843.7	2743.6	2653.0	2593.2	2570.1	2570.1
40°	5600.7	5858.9	5105.6	3572.0	2797.5	2653.0	2510.4	2402.5	2286.9	2182.8	2163.6
42.5°	6122.8	6448.4	5074.8	3161.6	2531.6	2443.0	2304.2	2171.3	2011.4	1864.9	1853.4
45°	7047.6	7215.3	4991.9	2735.8	2294.6	2240.6	2105.8	1961.3	1791.7	1660.7	1651.1
47.5°	8529.2	8292.2	4882.1	2358.2	2078.9	2063.4	1959.4	1791.7	1622.2	1531.7	1522.1
50°	10692.8	9987.6	4866.7	2084.6	1905.4	1913.2	1828.4	1674.2	1525.9	1450.7	1439.2
52.5°	13297.6	12035.6	4968.8	1892.0	1753.2	1782.1	1739.7	1597.2	1466.2	1402.6	1391.0
55°	15825.4	13877.5	5030.5	1741.7	1610.6	1664.6	1670.4	1551.0	1431.5	1367.9	1360.2
57.5°	17877.2	15264.7	4756.9	1604.9	1487.4	1570.2	1612.6	1524.0	1414.2	1365.9	1358.3
60°	19304.9	15919.7	3978.5	1483.5	1396.8	1495.1	1591.4	1525.9	1456.5	1462.3	1466.2
62.5°	19759.6	15628.8	2984.3	1393.0	1335.2	1470.0	1626.1	1604.9	1533.6	1577.9	1585.7
65°	19006.2	14426.6	2163.6	1321.7	1281.2	1487.4	1730.1	1662.7	1506.6	1539.4	1539.4
67.5°	16484.3	12428.7	1683.8	1256.2	1219.5	1520.1	1834.2	1656.9	1443.1	1481.6	1446.9
70°	13076.0	9613.9	1402.6	1183.0	1154.1	1472.0	1843.8	1597.2	1367.9	1375.7	1310.1
72.5°	8677.5	6321.2	1206.1	1113.6	1053.8	1323.6	1764.8	1520.1	1294.7	1250.4	1184.9
75°	4252.1	3152.0	1052.0	1026.9	922.8	1152.1	1656.9	1446.9	1215.7	1146.3	1109.7
77.5°	1647.3	1341.0	897.8	917.0	803.4	1015.3	1514.3	1342.8	1111.7	1017.3	988.4
80°	799.5	761.0	735.9	764.8	660.9	865.1	1383.3	1252.3	1015.3	911.3	868.9
82.5°	497.0	470.1	564.5	595.3	508.6	789.9	1312.1	1175.3	894.0	755.2	720.6
85°	252.4	269.7	377.6	406.5	364.1	628.0	1080.9	882.4	645.4	535.6	539.5
87.5°	96.3	129.1	198.4	213.8	194.6	331.4	595.3	514.4	414.2	281.3	260.1
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)