

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: P652469

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17258.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

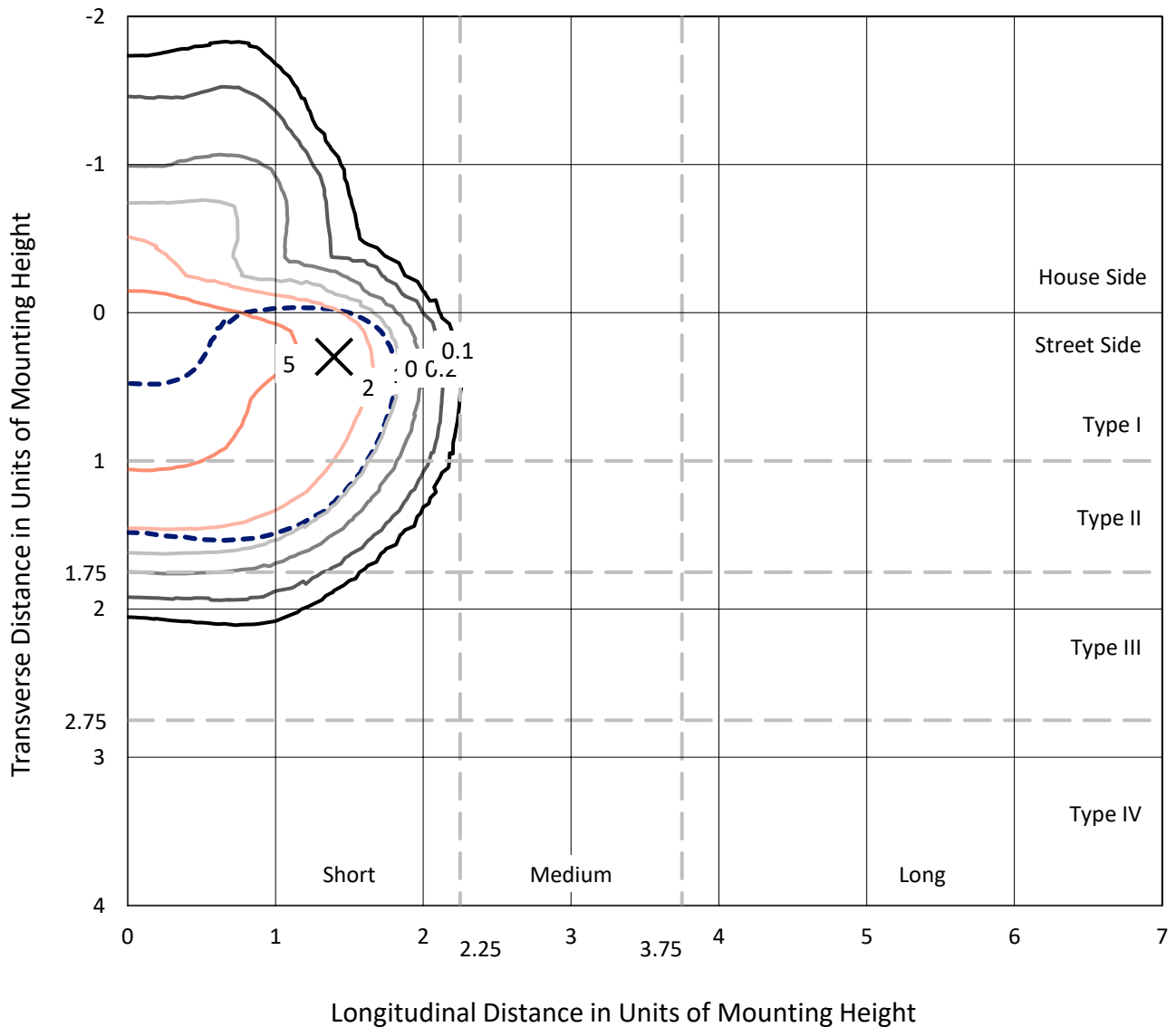
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

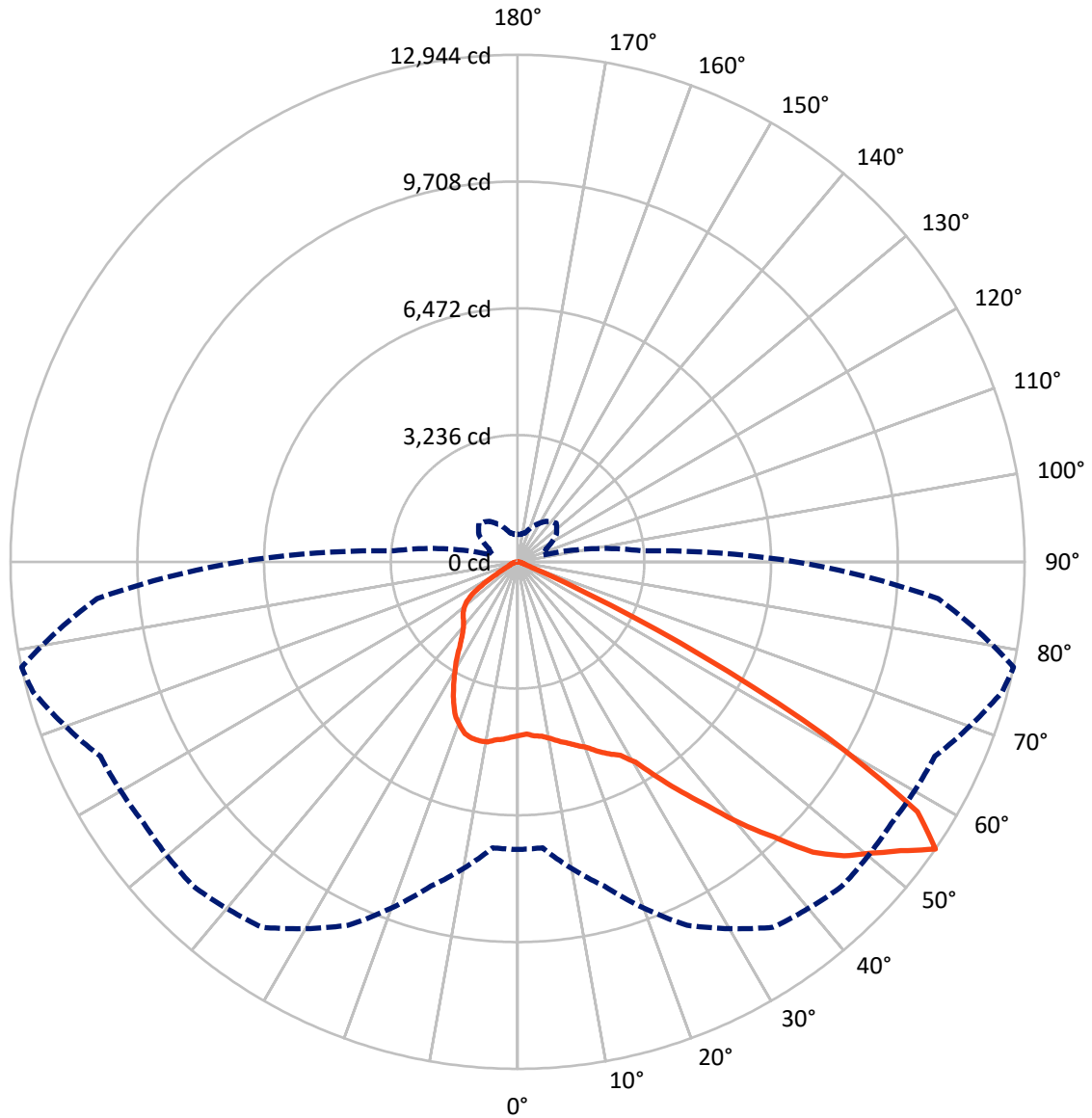
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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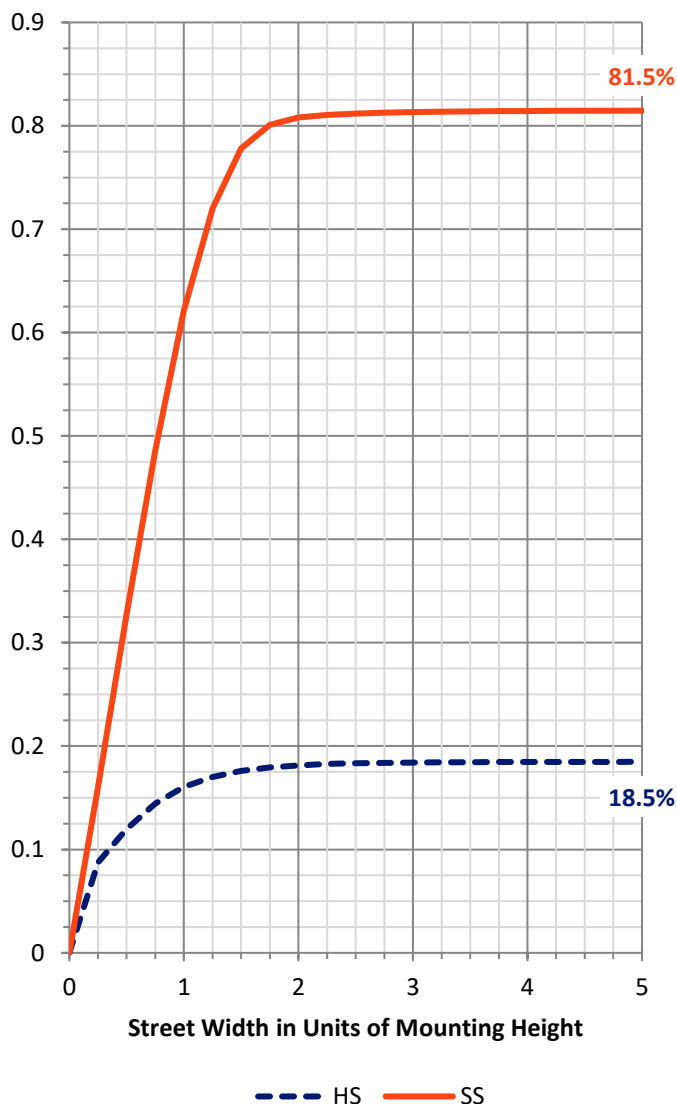
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3205.5	0.0	3205.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14052.6	0.0	14052.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	17258.2	0.0	17258.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	2.3
10°-20°	1047.1	6.1
20°-30°	1835.4	10.6
30°-40°	3026.3	17.5
40°-50°	4403.6	25.5
50°-60°	4989.7	28.9
60°-70°	1426.7	8.3
70°-80°	110.8	0.6
80°-90°	23.0	0.1
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°	17258.2	100.0
0°-180°	17258.2	100.0

Coefficient of Utilization



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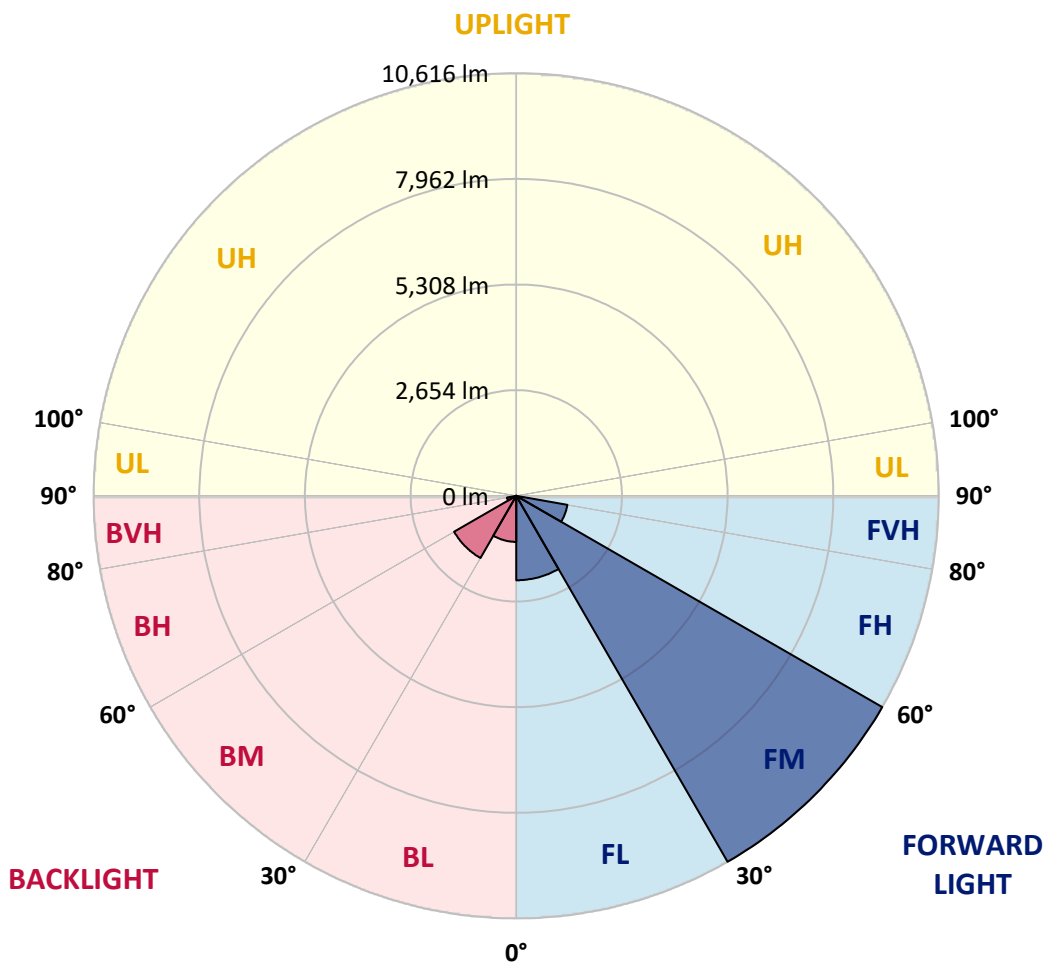
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.5	12.3			
FM (30°-60°)	10616.5	61.5			
FH (60°-80°)	1303.4	7.6			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	1156.6	6.7	B3/2500		
BM (30°-60°)	1803.1	10.4	B2/2500		
BH (60°-80°)	234.0	1.4	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1
2.5°	4171.7	4211.8	4218.0	4267.4	4264.3	4347.6	4372.3	4375.4	4430.9	4403.1	4474.1
5°	4054.5	4032.8	4023.6	4110.1	4134.7	4208.8	4270.4	4307.5	4421.6	4461.8	4535.8
7.5°	3949.6	3949.6	3955.7	4032.8	4023.6	4119.3	4184.1	4298.3	4464.9	4498.8	4588.2
10°	3847.7	3810.7	3857.0	3937.2	4005.1	4048.3	4184.1	4292.0	4486.5	4585.2	4708.6
12.5°	3795.3	3813.8	3820.0	3878.6	3952.6	4082.2	4156.3	4335.3	4640.7	4699.3	4832.0
15°	4125.4	4088.4	3999.0	3946.5	4008.2	4069.9	4255.0	4437.1	4721.0	4804.3	4952.4
17.5°	4508.0	4477.2	4403.1	4261.2	4122.3	4236.5	4381.5	4548.1	4807.3	4930.8	5149.9
20°	5007.9	4958.5	4884.5	4606.8	4486.5	4363.0	4517.3	4714.8	4949.3	5060.4	5285.6
22.5°	5603.4	5603.4	5436.8	5100.5	4850.6	4733.3	4798.1	4912.3	5106.6	5257.8	5480.0
25°	6223.7	6205.2	6053.9	5705.3	5282.6	5143.7	5217.7	5298.0	5350.4	5433.7	5581.8
27.5°	6933.3	6825.3	6634.1	6248.3	5875.0	5606.5	5686.8	5615.8	5551.0	5594.2	5807.1
30°	7414.7	7482.5	7238.8	6868.5	6516.7	6217.4	6232.9	6171.2	5875.0	5936.7	6063.2
32.5°	7914.6	7957.7	7822.0	7618.4	7266.6	6917.9	6791.4	6738.9	6516.7	6544.6	6421.1
35°	8331.1	8414.4	8294.1	8204.6	8102.8	7822.0	7473.3	7643.0	7285.1	7217.2	6896.3
37.5°	8713.7	8689.0	8831.0	8738.4	8716.8	8519.3	8136.7	8170.7	7930.0	7914.6	7544.3
40°	9056.2	9062.4	9256.8	9299.9	9213.6	8861.8	8306.4	8574.8	8769.3	8787.8	8312.6
42.5°	9340.1	9423.4	9590.0	9938.7	9809.1	9222.8	8482.3	8775.4	9497.5	9611.6	9040.8
45°	9587.0	9756.6	9963.4	10275.0	10201.0	9735.1	8920.5	9188.9	10275.0	10574.3	9725.8
47.5°	9602.4	9824.6	10049.8	10512.6	10605.2	10009.7	9374.0	9843.1	10892.1	11216.2	10225.6
50°	9540.6	9657.9	10108.4	10611.3	10821.1	10457.1	10009.7	10392.2	11490.8	11694.4	10478.7
52.5°	8809.4	8898.9	9802.9	10703.9	11209.9	10963.1	10852.0	11157.5	12101.7	12252.9	10716.3
55°	7343.7	7328.3	8571.8	10238.0	11388.9	11712.9	11645.0	11753.1	12808.3	12944.1	10774.9
57.5°	5023.4	5304.1	6377.9	8525.5	10293.5	11537.0	11608.0	11429.0	11984.4	12036.9	9392.5
60°	2709.1	2826.4	3690.4	5689.9	7837.4	9401.8	9587.0	9262.9	9219.7	9071.6	6705.0
62.5°	1076.9	1135.5	1626.1	2817.2	4270.4	5714.5	6112.6	5979.8	5696.0	5307.2	3471.3
65°	512.2	549.3	808.5	1317.5	1894.5	2382.0	2780.1	2903.6	2141.4	1928.5	1144.8
67.5°	348.7	376.4	589.4	752.9	675.7	706.6	919.5	854.7	502.9	428.9	317.8
70°	265.3	283.8	472.1	512.2	302.4	212.9	237.6	222.2	206.7	209.8	206.7
72.5°	188.2	203.7	345.6	302.4	132.7	98.7	126.5	151.2	151.2	151.2	148.1
75°	114.2	129.6	200.6	117.2	52.5	52.5	80.2	101.8	108.0	111.1	104.9
77.5°	58.6	74.1	67.9	34.0	34.0	40.1	58.6	71.0	77.1	77.1	74.1
80°	12.4	12.4	12.4	18.5	34.0	43.2	58.6	64.8	74.1	74.1	67.9
82.5°	0.0	3.1	9.3	18.5	30.9	40.1	55.5	64.8	74.1	77.1	71.0
85°	0.0	3.1	6.1	12.4	21.6	24.7	21.6	18.5	18.5	18.5	18.5
87.5°	0.0	0.0	3.1	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1
2.5°	4480.3	4489.5	4474.1	4471.0	4458.6	4495.7	4406.3	4384.6	4440.1	4387.7	4400.0
5°	4538.9	4560.5	4532.7	4486.5	4418.5	4313.7	4224.2	4106.9	4051.3	4011.2	4005.1
7.5°	4582.1	4597.5	4569.7	4421.6	4218.0	3952.6	3755.1	3610.2	3496.0	3462.1	3406.5
10°	4758.0	4761.1	4622.2	4295.2	3897.1	3548.4	3246.0	3023.9	2909.7	2838.7	2807.9
12.5°	4875.3	4869.1	4588.2	4045.2	3514.5	3051.7	2706.1	2437.6	2332.7	2298.8	2277.2
15°	5023.4	4989.4	4508.0	3789.1	3020.8	2520.9	2209.3	2024.1	2014.9	1993.3	2014.9
17.5°	5140.6	5044.9	4390.8	3323.2	2548.7	2076.6	1873.0	1885.3	1910.0	1931.6	1934.6
20°	5331.9	5134.4	4122.3	2915.9	2110.6	1780.4	1777.3	1832.9	1894.5	1919.2	1943.9
22.5°	5476.9	5171.5	3835.4	2480.8	1752.6	1660.0	1712.5	1795.8	1842.1	1866.8	1903.8
25°	5529.4	5069.6	3452.8	2045.7	1579.8	1604.5	1684.8	1740.3	1798.9	1826.7	1811.3
27.5°	5581.8	5017.2	2996.1	1684.8	1487.2	1567.5	1635.3	1690.9	1709.4	1746.4	1771.1
30°	5708.4	4835.2	2585.7	1456.4	1441.0	1542.8	1592.2	1610.7	1660.0	1681.7	1681.7
32.5°	5810.1	4764.2	2150.7	1348.4	1434.8	1555.2	1561.3	1561.3	1567.5	1552.1	1545.8
35°	6020.0	4520.4	1761.9	1283.6	1431.7	1558.2	1573.7	1521.2	1379.2	1323.7	1308.3
37.5°	6279.2	4363.0	1474.9	1268.1	1453.3	1595.3	1619.9	1422.5	1237.4	1147.9	1132.4
40°	6593.9	4251.9	1286.7	1262.0	1502.7	1681.7	1607.6	1345.3	1104.7	975.1	968.9
42.5°	6961.1	4150.1	1160.2	1258.9	1564.4	1771.1	1595.3	1280.5	968.9	882.5	894.8
45°	7254.2	4094.6	1073.8	1237.4	1586.0	1823.6	1604.5	1166.4	913.3	857.8	864.0
47.5°	7482.5	3977.3	1002.8	1200.3	1582.9	1842.1	1521.2	1120.0	885.6	901.0	916.4
50°	7488.8	3820.0	913.3	1120.0	1536.6	1808.2	1425.6	1076.9	879.4	944.2	975.1
52.5°	7405.4	3597.8	817.7	1005.9	1428.6	1690.9	1339.1	1058.4	851.6	845.5	882.5
55°	7109.2	3181.3	657.2	814.6	1206.5	1394.7	1262.0	1024.4	768.3	697.4	703.5
57.5°	5745.4	2280.3	484.4	583.1	854.7	1021.3	1138.5	1008.9	691.1	592.4	595.5
60°	3557.7	1292.9	354.8	398.0	527.6	620.2	922.6	938.1	617.1	499.9	493.7
62.5°	1826.7	638.7	274.6	280.8	324.0	364.1	632.5	786.8	558.5	475.2	475.2
65°	611.0	314.7	240.7	216.0	216.0	225.2	382.7	546.1	472.1	398.0	398.0
67.5°	262.3	234.5	209.8	188.2	172.8	163.6	216.0	317.8	351.8	302.4	290.1
70°	203.7	197.5	182.1	157.4	135.7	123.5	126.5	163.6	200.6	194.4	188.2
72.5°	151.2	151.2	145.0	123.5	104.9	89.5	83.3	86.4	95.6	98.7	101.8
75°	104.9	108.0	108.0	95.6	77.1	64.8	55.5	46.3	37.0	30.9	27.8
77.5°	71.0	74.1	80.2	71.0	58.6	43.2	34.0	24.7	15.4	6.1	6.1
80°	61.7	71.0	77.1	71.0	61.7	46.3	34.0	18.5	9.3	0.0	0.0
82.5°	64.8	71.0	80.2	67.9	58.6	43.2	34.0	21.6	9.3	3.1	0.0
85°	15.4	15.4	18.5	21.6	27.8	30.9	24.7	15.4	9.3	3.1	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	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)