

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: P652459

Luminaire Tested: **GALN-SA6B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23802.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

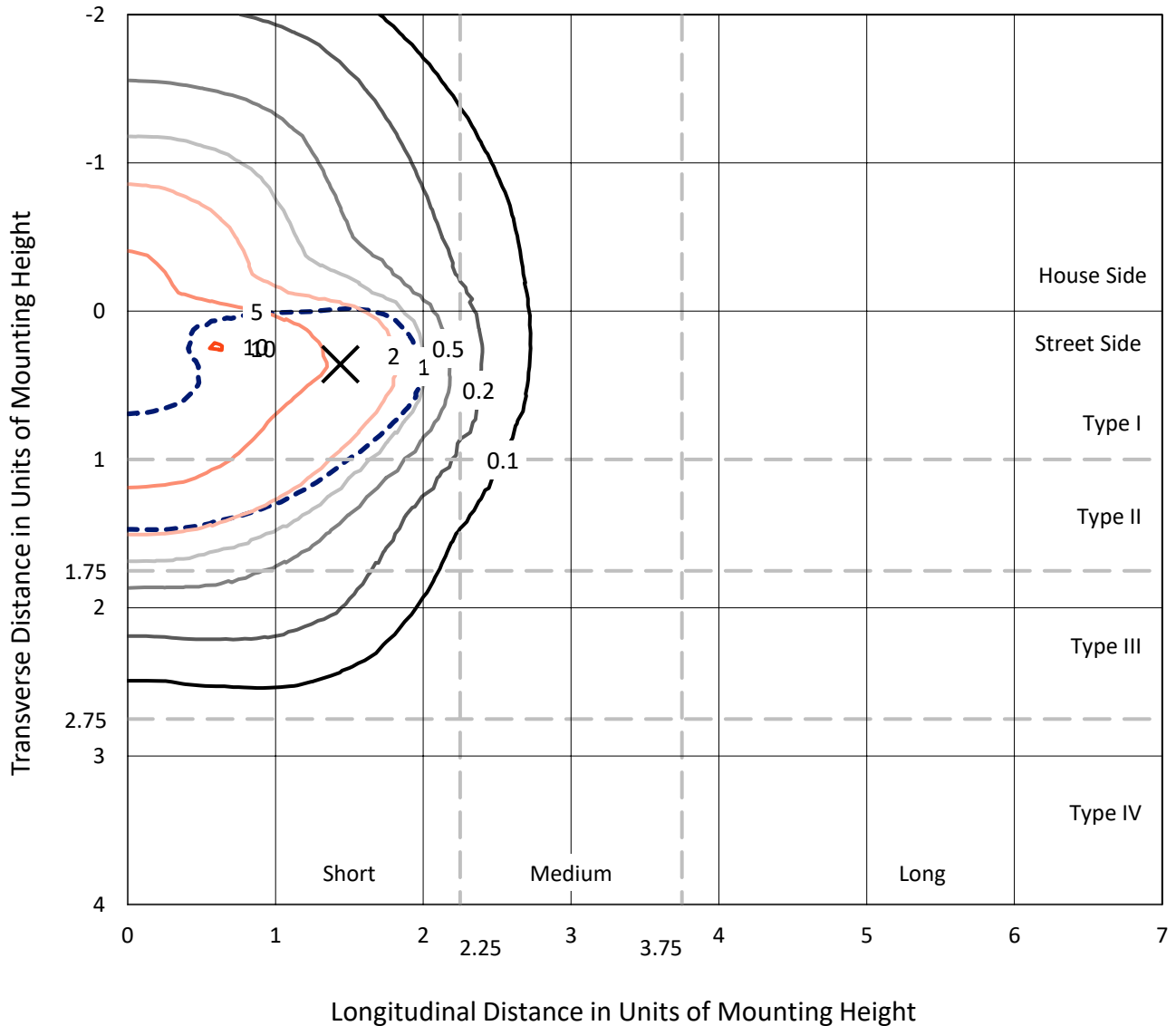
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

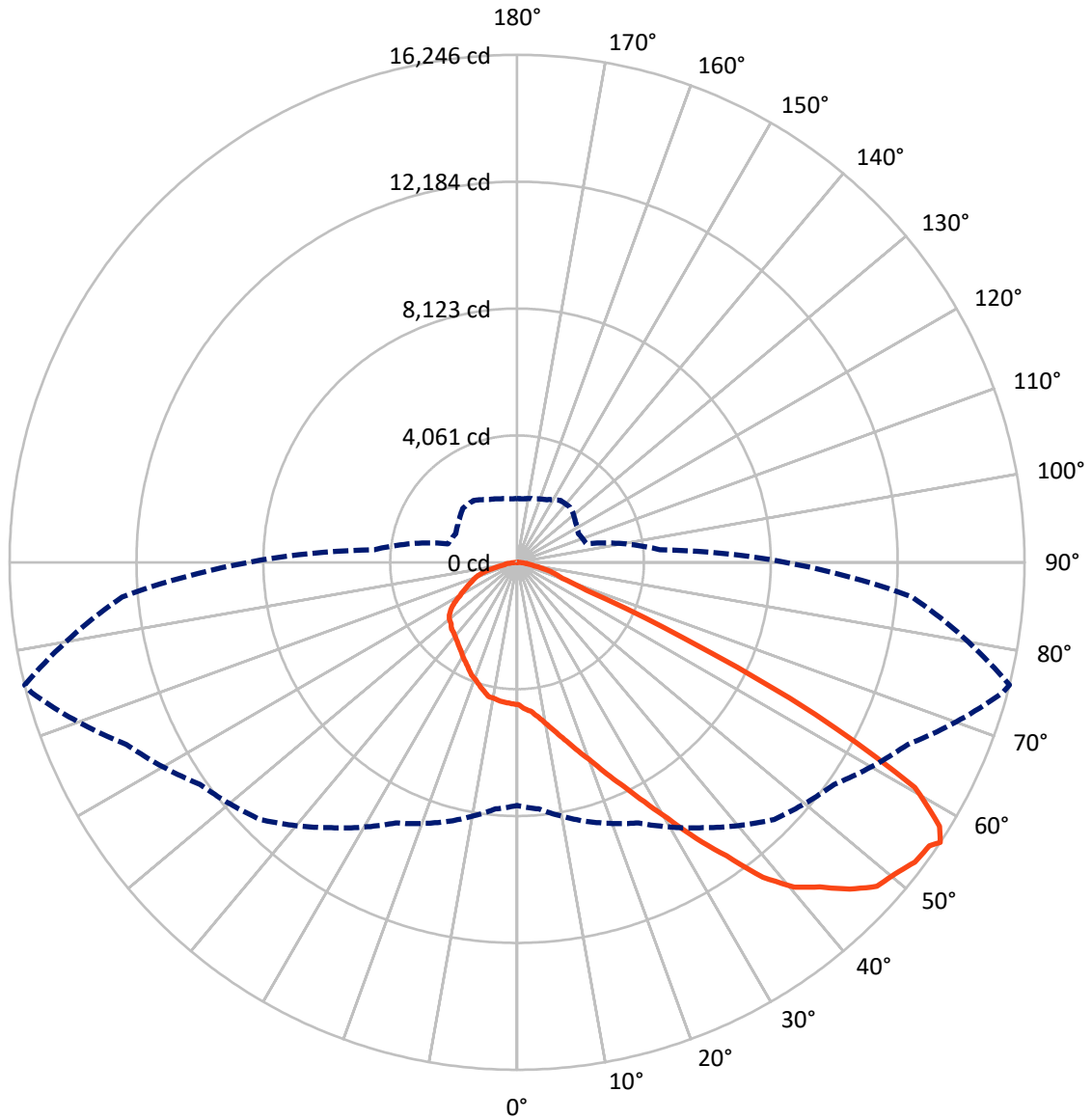
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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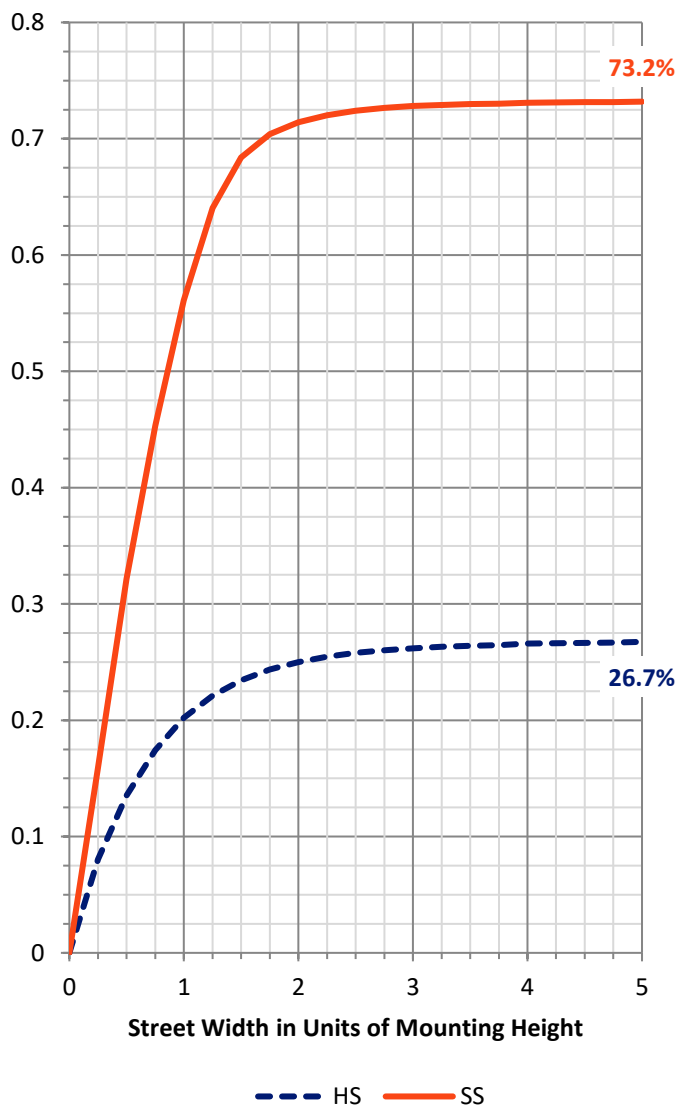
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6399.9	0.0	6399.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17403.0	0.0	17403.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	23802.8	0.0	23802.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	1.9
10°-20°	1418.8	6.0
20°-30°	2481.3	10.4
30°-40°	3885.0	16.3
40°-50°	5651.5	23.7
50°-60°	6211.4	26.1
60°-70°	2772.5	11.6
70°-80°	800.8	3.4
80°-90°	129.9	0.5
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°	23802.8	100.0
0°-180°	23802.8	100.0

Coefficient of Utilization



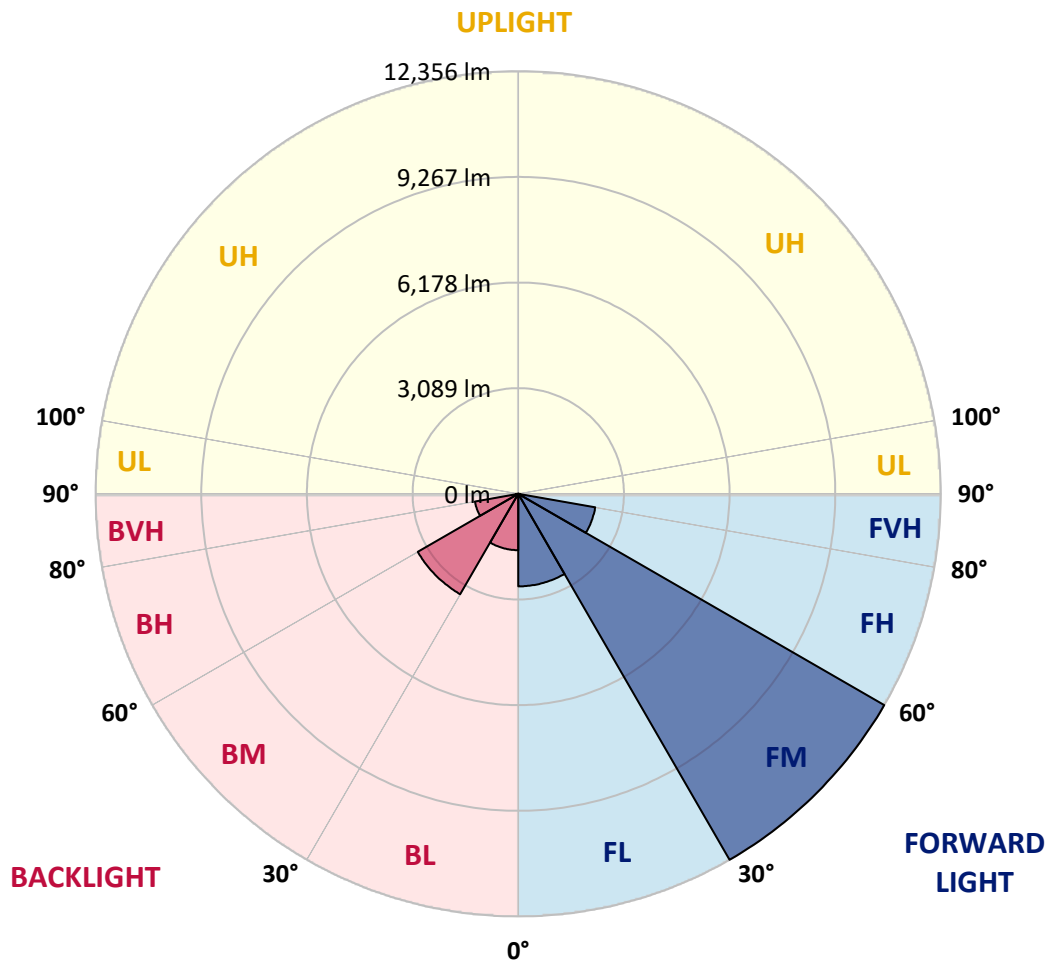
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2704.9	11.4			
FM (30°-60°)	12356.5	51.9			
FH (60°-80°)	2285.6	9.6			G2/5000
FVH (80°-90°)	55.9	0.2			G1/100
BL (0°-30°)	1646.8	6.9	B3/2500		
BM (30°-60°)	3391.4	14.2	B3/5000		
BH (60°-80°)	1287.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4
2.5°	5017.2	4937.0	4930.8	4909.2	4921.5	4866.0	4807.4	4730.2	4650.1	4699.4	4582.1
5°	5368.9	5261.0	5304.2	5230.1	5239.3	5165.3	5045.0	4955.5	4856.8	4798.2	4714.8
7.5°	5492.4	5501.7	5532.5	5520.2	5458.4	5458.4	5378.2	5220.8	5048.1	5014.1	4875.3
10°	5659.0	5662.1	5628.1	5637.4	5723.8	5683.7	5612.7	5544.9	5322.7	5282.6	5035.7
12.5°	5717.6	5662.1	5717.6	5767.0	5868.8	5924.3	5909.0	5859.6	5622.0	5594.2	5233.2
15°	5726.9	5693.0	5739.2	5850.3	5939.8	6174.3	6291.6	6257.6	5942.9	5946.0	5455.4
17.5°	5683.7	5730.0	5748.5	5844.1	6050.9	6270.0	6609.4	6655.7	6396.5	6356.4	5736.1
20°	5742.3	5708.4	5733.1	5819.5	6094.1	6436.6	6880.9	7186.4	6822.3	6794.5	6026.2
22.5°	5967.6	5921.3	5915.1	5970.7	6168.1	6523.0	7167.8	7717.1	7340.7	7356.1	6387.2
25°	6143.4	6168.1	6146.5	6143.4	6266.9	6652.6	7547.4	8349.7	8044.2	7954.7	6813.0
27.5°	6445.8	6504.5	6461.2	6519.9	6492.1	6847.0	7818.9	9050.1	8803.3	8682.9	7198.7
30°	6865.5	6896.4	6856.3	6856.3	6772.9	7118.5	8065.8	9781.4	9679.6	9516.0	7652.3
32.5°	7417.8	7464.1	7383.9	7337.6	7325.3	7522.7	8510.1	10503.4	10676.2	10537.4	8254.0
35°	8149.1	8121.4	8025.7	7982.5	7815.8	8142.9	9170.4	11333.5	11787.0	11540.2	8982.2
37.5°	8794.0	8750.8	8744.6	8503.9	8544.1	8812.5	9732.1	11962.9	12863.9	12793.0	9750.6
40°	9395.7	9435.8	9500.6	9364.9	9303.1	9599.3	10386.2	12444.3	13700.1	13672.4	10343.0
42.5°	10040.6	10003.5	10117.7	10003.5	9911.0	10330.6	11095.9	12777.5	14434.5	14206.2	10963.2
45°	10975.6	10858.2	10898.4	10907.6	10839.7	10994.1	11389.0	13018.2	14949.8	14925.1	11416.7
47.5°	11756.2	11759.3	11691.4	11638.9	11432.2	11586.5	11716.1	13169.4	15542.3	15502.2	11592.7
50°	12046.2	12006.1	12203.6	12317.8	12330.1	12015.4	11972.1	13252.7	15853.9	15678.0	11768.5
52.5°	11003.3	11040.3	11352.0	12030.8	12422.7	12456.6	12271.5	13425.5	15980.4	15943.3	11910.5
55°	8855.7	9034.7	9546.9	10330.6	11259.4	12280.7	12595.5	13604.4	16048.3	16017.4	12539.9
56°	7785.0	7923.8	8590.3	9204.4	10370.7	11642.0	12391.8	13795.8	16100.7	16245.8	12688.0
57.5°	6266.9	6427.3	6905.6	7603.0	8979.1	10426.3	11830.3	13561.3	15897.1	15952.6	12796.1
60°	3918.7	3934.2	4508.1	4967.9	5936.7	7349.9	9028.5	11799.4	14712.2	14632.0	11493.9
62.5°	2570.3	2573.4	3094.9	3471.3	3912.6	4236.5	5313.4	7825.1	10855.2	10713.2	8183.0
65°	1805.1	1845.2	2249.4	2752.3	2931.3	2761.6	2727.7	4125.4	6063.2	5859.6	4397.0
67.5°	1320.6	1323.7	1681.7	2221.7	2480.9	2101.3	1706.3	2014.9	2400.6	2394.4	2036.5
70°	873.2	910.2	1184.9	1660.0	1956.3	1687.8	1394.7	1441.0	1527.3	1527.3	1515.1
72.5°	509.1	543.0	725.1	1052.2	1098.5	1055.3	1104.7	1234.3	1289.8	1286.7	1271.3
75°	290.1	305.5	345.6	438.2	546.1	644.9	811.5	934.9	990.4	1024.4	984.3
77.5°	169.7	179.0	203.7	249.9	283.8	348.7	441.3	527.6	601.7	592.4	598.6
80°	89.5	89.5	114.2	148.1	197.5	246.8	293.2	342.5	382.7	391.9	401.2
82.5°	52.5	55.5	74.1	108.0	142.0	175.9	225.2	259.2	296.2	299.3	305.5
85°	27.8	30.9	46.3	71.0	95.6	108.0	111.1	104.9	114.2	108.0	123.5
87.5°	9.3	9.3	15.4	12.4	12.4	15.4	18.5	18.5	24.7	24.7	24.7
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°	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4
2.5°	4579.1	4579.1	4526.6	4427.9	4412.4	4372.3	4335.3	4332.2	4304.4	4279.8	4267.4
5°	4665.4	4569.8	4492.6	4403.1	4298.3	4248.9	4193.3	4131.7	4106.9	4131.7	4128.6
7.5°	4764.2	4683.9	4452.5	4285.9	4165.6	4116.2	4054.5	3989.7	3995.8	3995.8	3952.7
10°	4859.8	4751.8	4381.6	4168.7	3992.8	3955.7	3921.8	3946.5	3977.3	3983.6	3955.7
12.5°	5020.3	4776.5	4347.6	4051.4	3940.3	3860.1	3881.7	3949.6	4014.3	3995.8	4017.5
15°	5140.6	4798.2	4193.3	3931.1	3792.2	3829.2	3906.4	3952.7	4060.7	4048.3	4069.9
17.5°	5257.8	4810.4	4042.2	3770.6	3712.0	3813.9	3872.5	4005.1	4039.1	4113.2	4140.9
20°	5498.5	4835.2	3887.9	3671.9	3653.4	3770.6	3872.5	3934.2	4008.2	4073.0	4073.0
22.5°	5622.0	4822.8	3786.0	3542.3	3600.9	3675.0	3767.5	3872.5	3872.5	3934.2	3937.2
25°	5776.2	4773.4	3625.6	3480.6	3523.8	3594.8	3699.6	3662.6	3702.8	3702.8	3752.1
27.5°	5952.2	4668.6	3486.7	3369.5	3455.9	3533.0	3548.4	3523.8	3477.5	3471.3	3452.8
30°	6094.1	4539.0	3384.9	3332.5	3403.4	3446.7	3397.2	3344.8	3264.6	3258.4	3215.2
32.5°	6288.5	4378.5	3258.4	3239.9	3320.1	3323.2	3307.7	3227.6	3110.3	3060.9	3011.5
35°	6615.6	4285.9	3162.7	3190.5	3215.2	3206.0	3178.2	3091.8	2974.5	2952.9	2934.4
37.5°	6856.3	4218.0	3064.0	3098.0	3119.5	3131.9	3048.6	2952.9	2956.0	2912.8	2900.4
40°	7127.7	4174.8	2983.8	2999.2	3002.3	3042.4	2940.6	2894.3	2915.9	2888.2	2906.7
42.5°	7476.4	4187.2	2900.4	2888.2	2946.8	2931.3	2881.9	2820.2	2832.6	2749.3	2761.6
45°	7661.6	4270.5	2851.1	2795.6	2860.3	2857.3	2792.5	2733.8	2659.8	2499.4	2505.5
47.5°	7785.0	4292.1	2733.8	2696.8	2764.7	2804.8	2730.7	2595.0	2490.1	2375.9	2348.2
50°	7911.5	4332.2	2678.3	2601.2	2629.0	2724.6	2632.0	2502.4	2400.6	2298.8	2314.2
52.5°	8022.6	4409.4	2570.3	2456.1	2505.5	2610.5	2561.1	2403.7	2292.7	2209.3	2184.6
55°	8516.3	4582.1	2388.3	2240.2	2357.4	2490.1	2462.3	2271.0	2150.7	2107.5	2101.3
56°	8593.4	4588.3	2292.7	2166.1	2274.1	2450.0	2416.0	2212.4	2104.4	2036.5	2039.6
57.5°	8605.8	4514.2	2156.8	2098.2	2190.8	2391.4	2348.2	2166.1	2018.0	1956.3	1937.7
60°	7572.1	3523.8	1987.1	1950.1	2058.1	2212.4	2196.9	2039.6	1873.0	1802.0	1835.9
62.5°	5162.2	2582.6	1854.5	1848.3	1903.9	2055.0	2014.9	1873.0	1734.1	1687.8	1666.2
65°	3005.4	1959.4	1724.9	1700.2	1746.4	1826.7	1854.5	1706.3	1561.3	1530.5	1521.2
67.5°	1774.3	1619.9	1558.2	1518.1	1502.7	1552.1	1573.7	1487.2	1342.2	1299.0	1336.1
70°	1484.2	1441.0	1444.1	1376.2	1339.1	1305.2	1286.7	1209.5	1089.3	1033.7	1018.3
72.5°	1280.5	1262.0	1249.6	1188.0	1154.0	1076.9	996.7	919.5	830.1	783.7	786.8
75°	978.2	971.9	978.2	947.3	888.7	827.0	752.9	654.1	586.3	527.6	540.0
77.5°	583.1	601.7	611.0	598.6	573.9	518.4	472.1	407.3	342.5	296.2	290.1
80°	401.2	416.5	432.0	416.5	391.9	351.8	302.4	253.1	206.7	182.1	175.9
82.5°	305.5	320.9	330.2	314.7	283.8	240.7	206.7	172.8	135.7	111.1	104.9
85°	111.1	126.5	123.5	148.1	160.5	154.2	132.7	101.8	77.1	55.5	52.5
87.5°	30.9	27.8	30.9	30.9	30.9	27.8	24.7	24.7	24.7	15.4	12.4
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)