

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: P652360

Luminaire Tested: **GALN-SA4B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16525.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

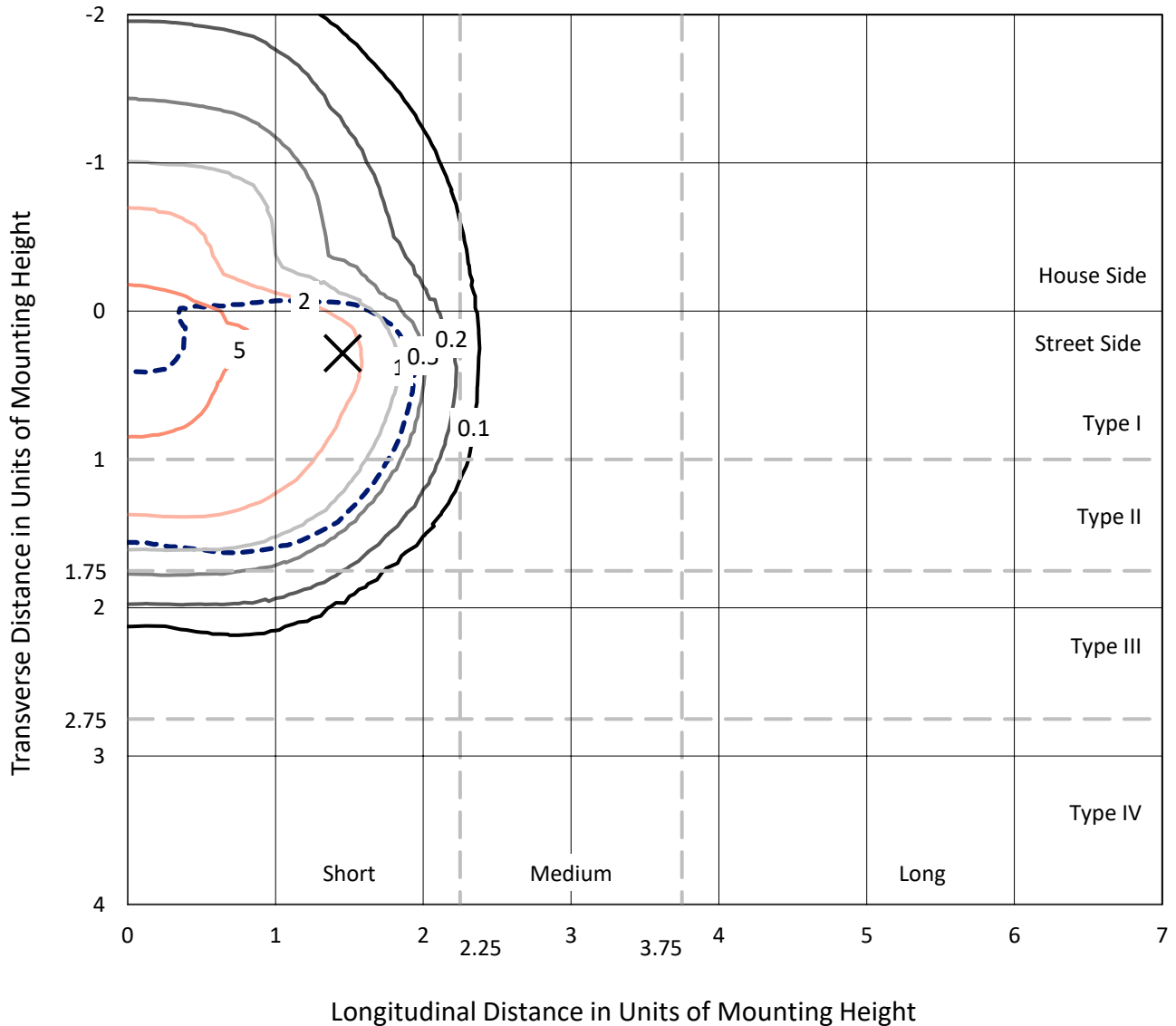
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

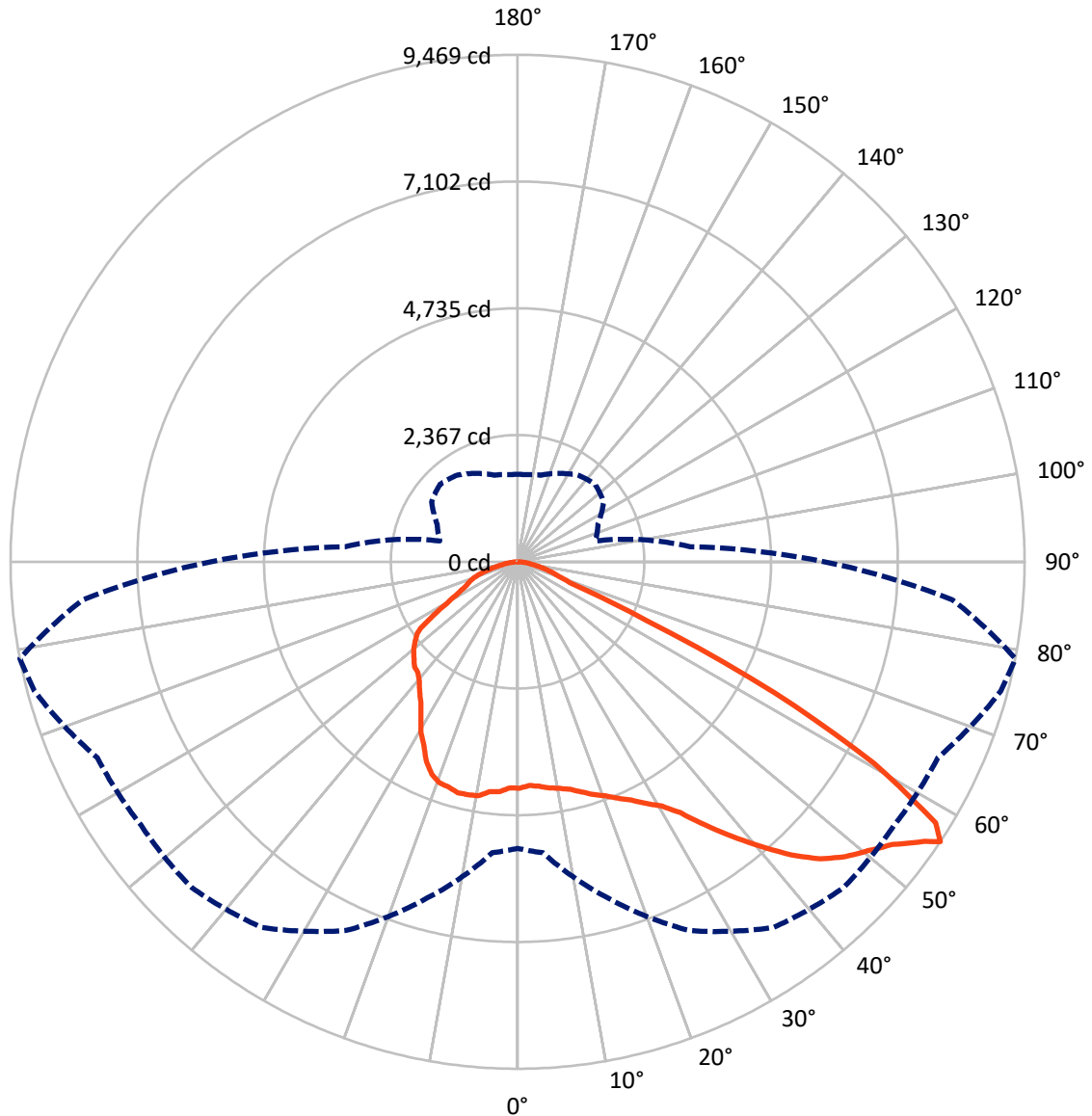
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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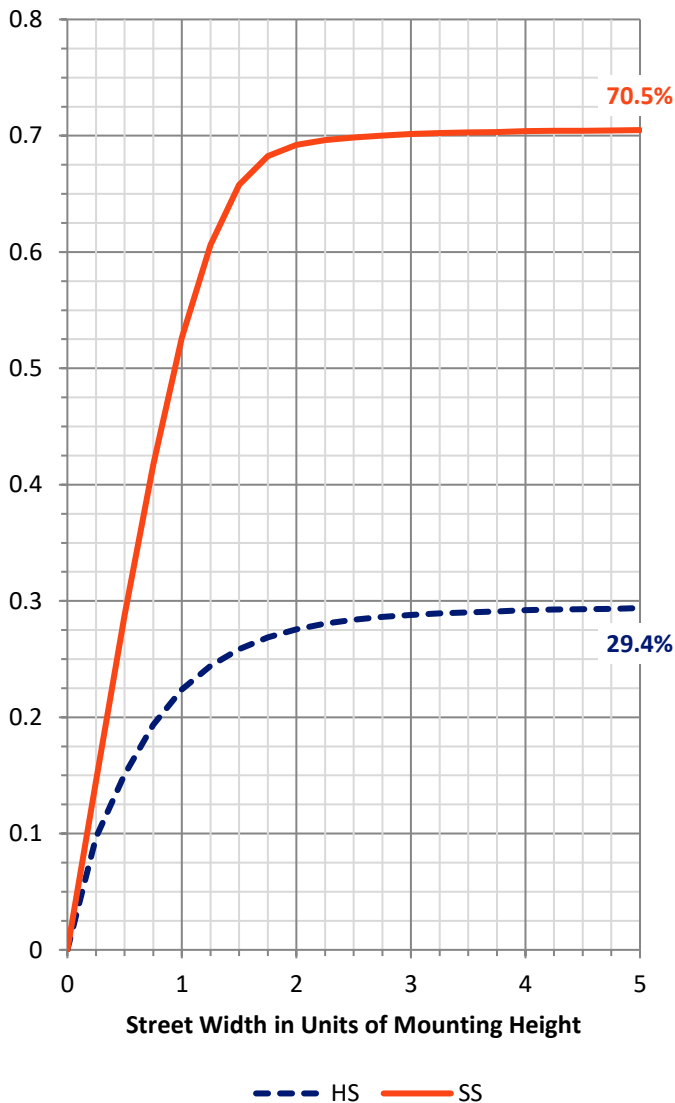
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4880.4	0.0	4880.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11645.3	0.0	11645.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	16525.6	0.0	16525.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	2.3
10°-20°	1052.1	6.4
20°-30°	1799.9	10.9
30°-40°	2758.6	16.7
40°-50°	3728.2	22.6
50°-60°	4281.9	25.9
60°-70°	1951.8	11.8
70°-80°	481.2	2.9
80°-90°	87.5	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°	16525.6	100.0
0°-180°	16525.6	100.0



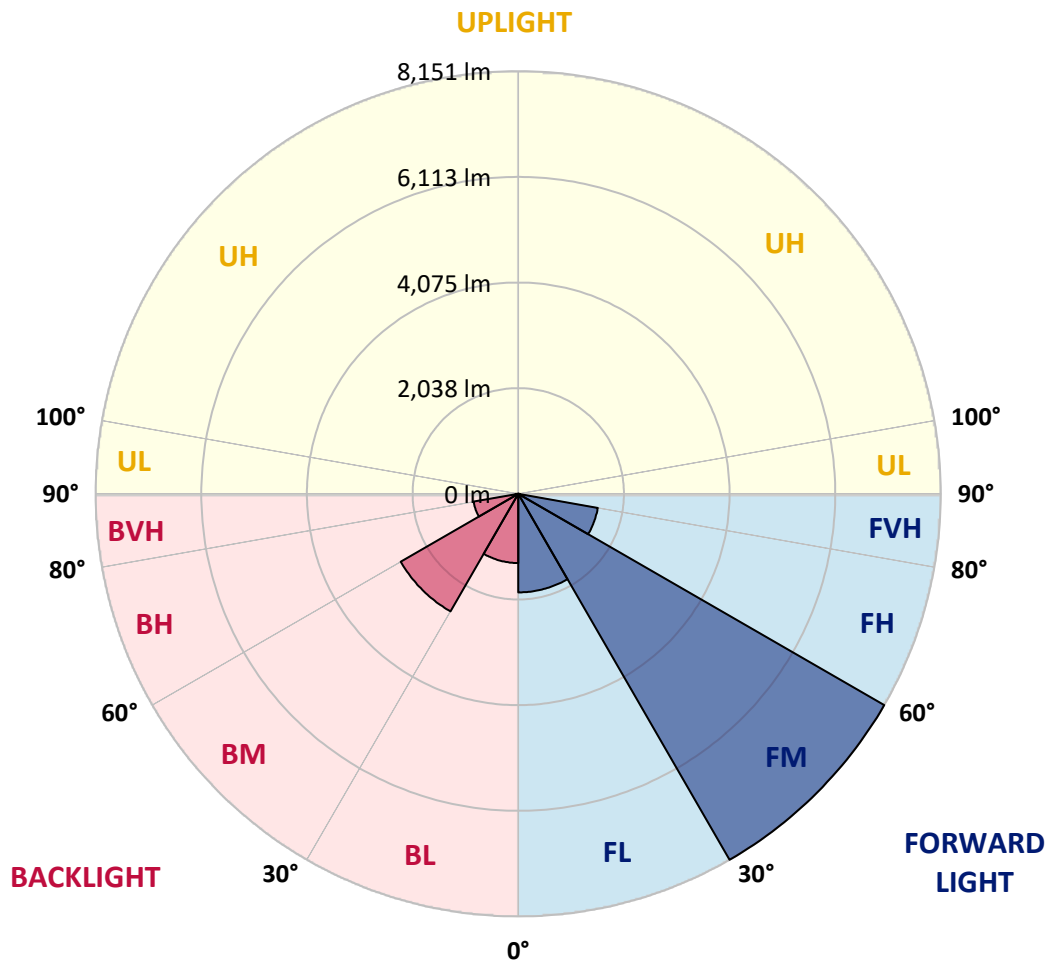
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1901.4	11.5			
FM	(30°-60°)	8150.9	49.3			
FH	(60°-80°)	1558.0	9.4			G1/1800
FVH	(80°-90°)	34.9	0.2			G1/100
BL	(0°-30°)	1335.0	8.1	B3/2500		
BM	(30°-60°)	2617.8	15.8	B3/5000		
BH	(60°-80°)	875.1	5.3	B2/1000		G2/1000
BVH	(80°-90°)	52.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3
2.5°	4022.4	4012.1	4036.8	4055.3	4078.0	4106.8	4121.2	4129.5	4201.5	4183.0	4238.6
5°	3936.0	3909.2	3927.7	3942.1	3981.2	4016.2	4055.3	4117.1	4183.0	4211.8	4279.8
7.5°	3859.8	3845.4	3841.3	3851.5	3905.1	3950.3	4018.3	4108.9	4215.9	4263.3	4302.4
10°	3734.2	3713.6	3744.5	3812.4	3826.8	3921.5	3999.8	4129.5	4222.1	4304.4	4419.7
12.5°	3678.6	3658.0	3664.2	3703.3	3804.2	3894.8	3987.4	4133.6	4329.1	4362.1	4516.4
15°	3767.2	3746.6	3752.7	3742.4	3839.2	3886.5	4032.7	4215.9	4403.2	4458.8	4623.5
17.5°	3968.8	3970.9	3944.2	3921.5	3898.9	3999.8	4100.6	4265.3	4432.1	4572.0	4695.6
20°	4353.9	4285.9	4232.4	4104.8	4069.8	4113.0	4240.6	4399.1	4549.4	4664.7	4804.6
22.5°	4650.2	4656.4	4580.3	4370.3	4294.1	4312.6	4421.7	4551.5	4716.2	4798.5	4959.0
25°	5080.5	5037.3	4954.9	4788.1	4617.3	4631.7	4712.0	4829.4	4874.6	4932.3	5107.2
27.5°	5473.6	5486.0	5323.4	5166.9	4954.9	4913.8	5057.9	5078.5	5002.3	5111.3	5171.1
30°	5873.0	5862.8	5755.7	5572.5	5364.6	5372.8	5436.6	5335.7	5230.8	5290.5	5331.6
32.5°	6286.8	6169.5	6165.4	6000.7	5842.2	5766.0	5687.8	5737.1	5574.6	5586.9	5547.8
35°	6618.2	6634.7	6540.0	6422.6	6344.4	6210.6	5996.6	6085.1	6054.2	6039.8	5871.0
37.5°	6859.1	6795.3	6842.6	6803.5	6729.4	6562.7	6340.3	6424.7	6439.1	6509.2	6313.6
40°	7056.7	7029.9	7155.5	7176.1	7124.6	6764.4	6365.0	6616.1	6832.3	6984.7	6752.1
42.5°	7151.4	7209.1	7340.8	7499.3	7384.0	6999.1	6492.7	6762.3	7244.0	7484.9	7167.8
45°	7279.0	7204.9	7400.5	7690.8	7692.8	7196.7	6616.1	6959.9	7565.1	7915.2	7451.9
47.5°	7149.3	7186.4	7388.1	7756.6	7851.3	7404.6	6949.7	7239.9	7919.3	8230.1	7715.4
50°	6859.1	6933.2	7301.6	7684.6	7970.7	7624.8	7332.5	7542.5	8246.5	8483.3	7758.6
52.5°	6556.5	6597.6	7174.1	7740.1	8024.2	7908.9	7845.1	7960.4	8645.9	8769.4	7812.2
55°	5733.1	5928.6	6752.1	7715.4	8285.7	8421.5	8372.2	8540.9	9098.8	9222.3	8104.5
56°	5352.2	5455.1	6498.8	7600.2	8337.1	8608.8	8584.2	8660.3	9339.6	9469.3	8149.8
57.5°	4648.2	4656.4	5541.6	7089.6	8143.7	8664.4	8639.8	8699.4	9292.3	9203.7	7752.5
60°	2908.8	3036.3	3771.3	5453.1	6925.0	8038.6	8178.6	7698.9	7834.8	7647.5	6031.6
62.5°	1506.8	1488.3	1976.2	3188.7	4596.7	5755.7	5885.4	5862.8	5652.8	5379.0	3940.1
65°	751.3	755.5	1033.4	1578.9	2355.0	3013.7	3376.0	3415.1	2857.3	2628.8	1869.1
67.5°	545.6	566.1	743.1	965.5	1109.5	1241.3	1521.3	1492.4	1130.1	1074.5	996.3
70°	424.0	442.6	603.2	737.0	669.0	669.0	728.7	753.5	804.9	827.5	854.3
72.5°	308.8	323.2	461.1	508.5	438.5	471.4	545.6	603.2	656.7	664.9	695.8
75°	212.0	224.4	302.6	280.0	263.5	325.2	399.4	452.9	492.0	512.6	531.1
77.5°	137.9	142.0	172.9	146.2	168.8	210.0	259.4	304.7	343.8	360.3	364.3
80°	61.7	68.0	74.1	92.6	117.3	150.3	185.3	222.4	247.0	253.2	265.6
82.5°	35.0	35.0	45.3	65.9	86.5	109.1	133.8	160.5	189.4	195.5	193.5
85°	18.5	18.5	26.7	39.1	53.5	63.8	61.7	63.8	68.0	78.2	76.2
87.5°	6.1	6.1	8.2	8.2	10.3	12.4	10.3	14.4	18.5	18.5	18.5
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°	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3	4228.3
2.5°	4222.1	4240.6	4215.9	4269.4	4269.4	4259.2	4207.7	4224.2	4236.5	4236.5	4246.8
5°	4302.4	4296.2	4312.6	4248.8	4209.7	4195.3	4110.9	4069.8	4034.8	4032.7	4001.8
7.5°	4347.6	4331.2	4325.0	4277.7	4104.8	3999.8	3818.6	3713.6	3691.0	3610.7	3641.6
10°	4419.7	4450.6	4419.7	4162.4	3921.5	3680.7	3503.7	3341.0	3277.2	3225.7	3194.9
12.5°	4567.9	4553.5	4374.4	4026.5	3688.9	3402.8	3139.3	2968.4	2904.6	2859.3	2855.2
15°	4693.5	4621.5	4347.6	3812.4	3326.6	3022.0	2805.8	2684.4	2655.5	2659.7	2678.2
17.5°	4736.7	4687.3	4207.7	3590.1	3057.0	2698.8	2597.8	2579.3	2606.1	2637.0	2645.2
20°	4804.6	4726.4	4150.0	3287.5	2723.5	2497.0	2490.9	2556.7	2606.1	2651.4	2657.6
22.5°	4946.7	4749.0	3962.7	3001.4	2495.0	2437.3	2497.0	2552.6	2628.8	2665.8	2632.9
25°	4987.9	4699.7	3699.2	2657.6	2350.8	2400.3	2464.0	2540.2	2593.8	2614.3	2628.8
27.5°	5022.9	4623.5	3343.1	2429.1	2305.6	2398.2	2464.0	2527.9	2556.7	2575.2	2591.7
30°	5121.7	4600.9	3034.3	2276.8	2276.8	2357.1	2441.4	2457.9	2497.0	2519.6	2548.5
32.5°	5171.1	4444.4	2717.3	2180.0	2247.9	2377.6	2383.8	2414.7	2416.7	2435.3	2404.4
35°	5300.7	4333.3	2422.9	2110.0	2260.3	2357.1	2387.9	2369.3	2268.5	2219.1	2229.4
37.5°	5395.4	4277.7	2210.9	2101.7	2262.4	2379.7	2396.2	2256.2	2151.2	2068.9	2089.5
40°	5650.7	4139.7	2050.3	2087.4	2280.9	2404.4	2359.1	2206.8	2017.4	1933.0	1918.6
42.5°	5846.3	4040.9	1949.4	2070.9	2295.3	2439.4	2340.6	2108.0	1914.5	1836.2	1856.8
45°	6072.7	4018.3	1896.0	2075.0	2320.0	2457.9	2318.0	2031.8	1825.9	1795.0	1788.9
47.5°	6153.0	3855.6	1838.3	2040.0	2313.8	2451.8	2241.8	1974.2	1793.0	1797.1	1813.6
50°	6019.2	3688.9	1795.0	1967.9	2272.6	2396.2	2122.3	1898.0	1774.5	1825.9	1854.7
52.5°	5848.3	3518.1	1706.6	1871.2	2188.2	2309.7	2066.8	1893.8	1755.9	1739.4	1745.7
55°	5899.8	3378.0	1583.0	1739.4	2052.4	2149.1	2005.0	1854.7	1710.7	1648.9	1669.5
56°	5733.1	3234.0	1502.7	1657.1	1959.7	2046.2	1974.2	1819.8	1673.6	1632.5	1632.5
57.5°	5261.6	2750.2	1397.7	1525.4	1764.2	1867.1	1914.5	1799.2	1632.5	1560.4	1562.4
60°	3880.4	1955.7	1253.7	1344.3	1461.6	1543.9	1764.2	1741.5	1529.5	1480.1	1461.6
62.5°	2392.1	1428.6	1150.7	1185.7	1245.4	1313.4	1539.8	1576.9	1420.4	1366.9	1354.5
65°	1340.1	1093.0	1072.5	1086.9	1115.8	1150.7	1278.3	1360.7	1253.7	1171.3	1167.2
67.5°	979.8	977.8	994.3	1006.6	1019.0	1019.0	1049.8	1082.8	1068.4	1002.5	996.3
70°	870.8	876.9	889.3	891.4	895.5	881.0	856.4	846.0	862.5	821.3	813.2
72.5°	718.5	739.0	753.5	755.5	732.8	714.3	681.4	646.4	634.0	625.8	623.8
75°	551.7	566.1	572.3	570.2	562.0	535.2	496.1	461.1	438.5	413.8	426.1
77.5°	372.6	393.2	403.5	403.5	391.1	349.9	331.4	304.7	282.0	255.2	259.4
80°	261.5	275.8	292.3	290.2	269.7	249.1	222.4	197.6	179.1	158.5	156.4
82.5°	195.5	203.8	212.0	207.9	193.5	172.9	154.4	131.8	111.2	96.7	96.7
85°	70.0	76.2	92.6	96.7	105.0	105.0	88.6	74.1	59.7	49.4	49.4
87.5°	20.6	20.6	22.6	22.6	20.6	22.6	18.5	20.6	22.6	14.4	14.4
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)