

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: P651315

Luminaire Tested: **GALN-SA3D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651315
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-SA3D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 16953.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

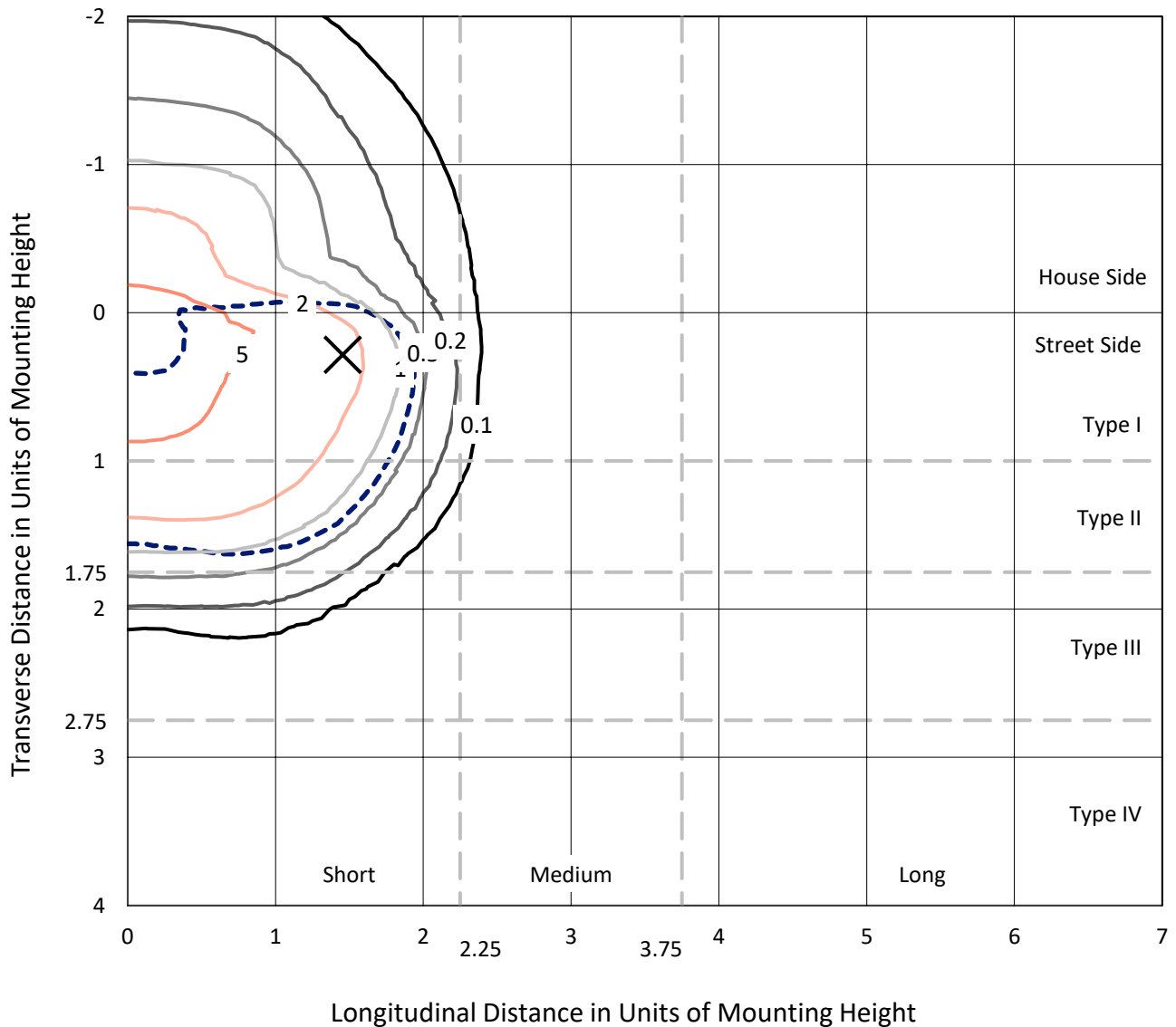
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

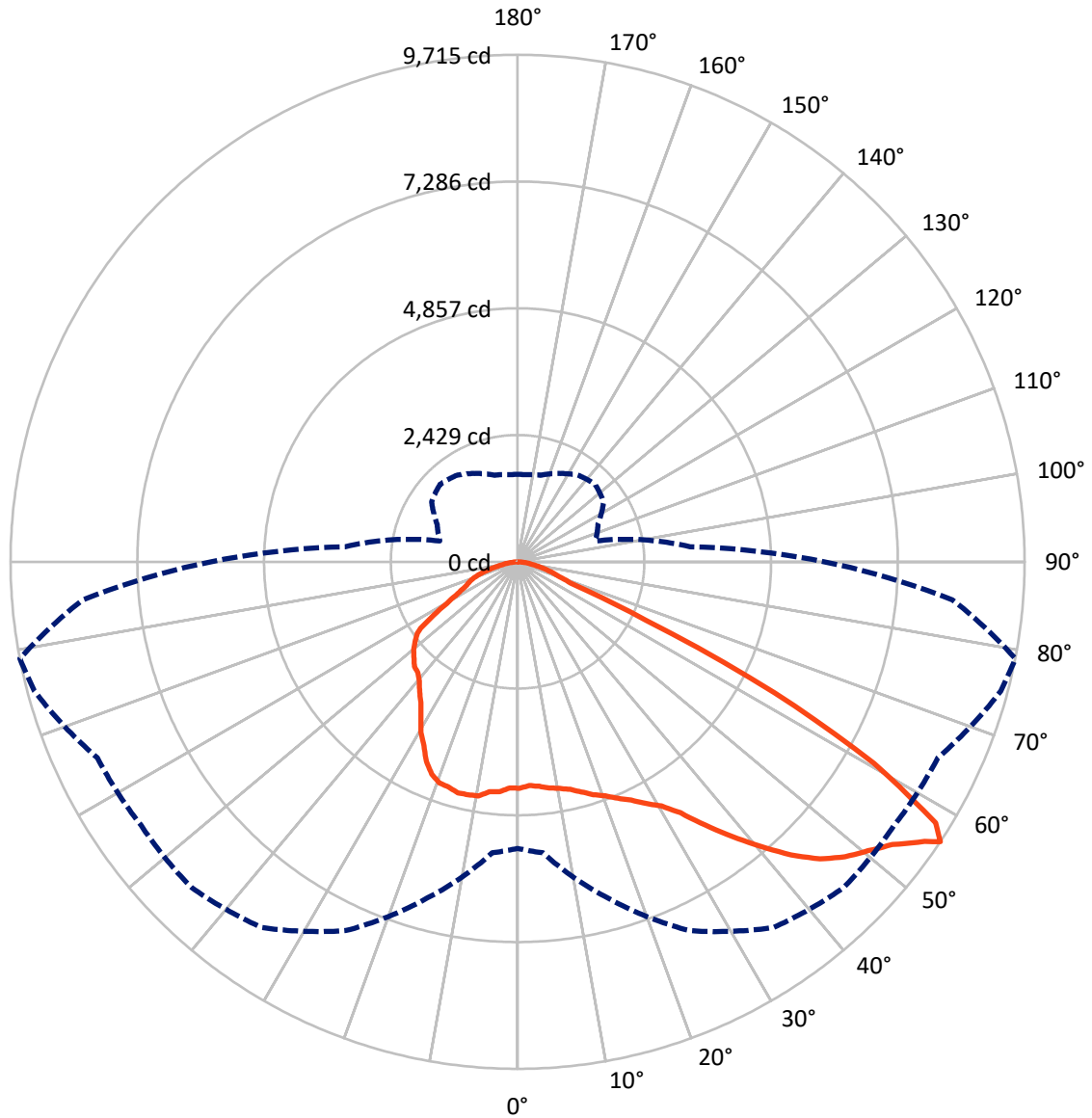
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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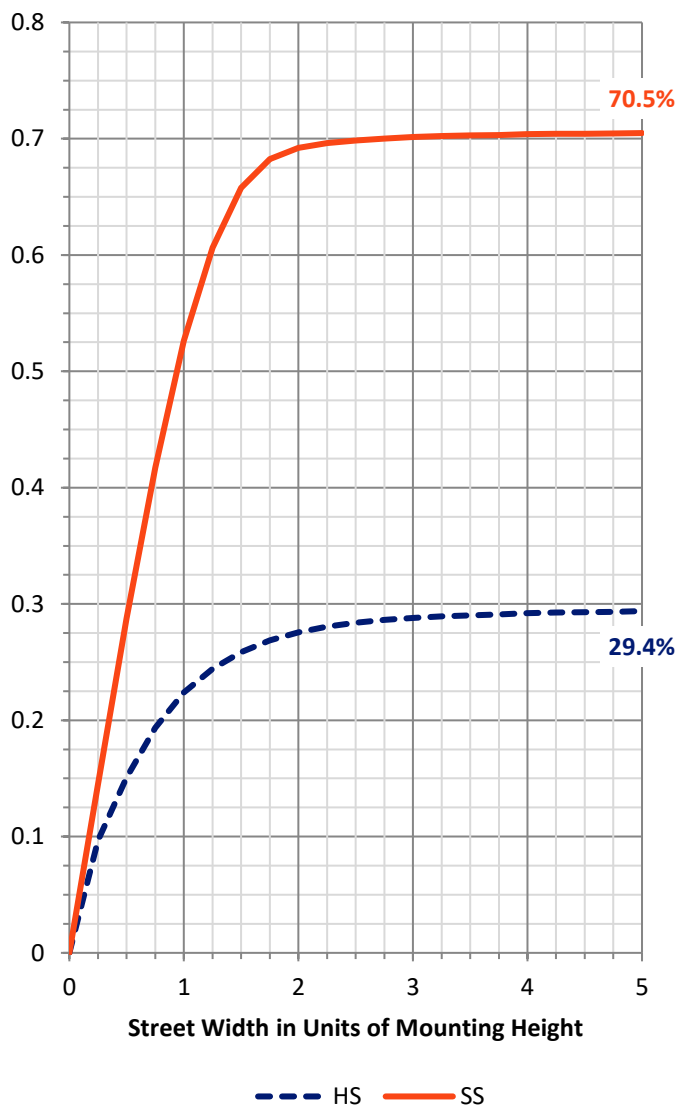
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5006.8	0.0	5006.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11946.9	0.0	11946.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	16953.7	0.0	16953.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	2.3
10°-20°	1079.3	6.4
20°-30°	1846.5	10.9
30°-40°	2830.0	16.7
40°-50°	3824.8	22.6
50°-60°	4392.9	25.9
60°-70°	2002.4	11.8
70°-80°	493.7	2.9
80°-90°	89.7	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°	16953.7	100.0
0°-180°	16953.7	100.0

Coefficient of Utilization

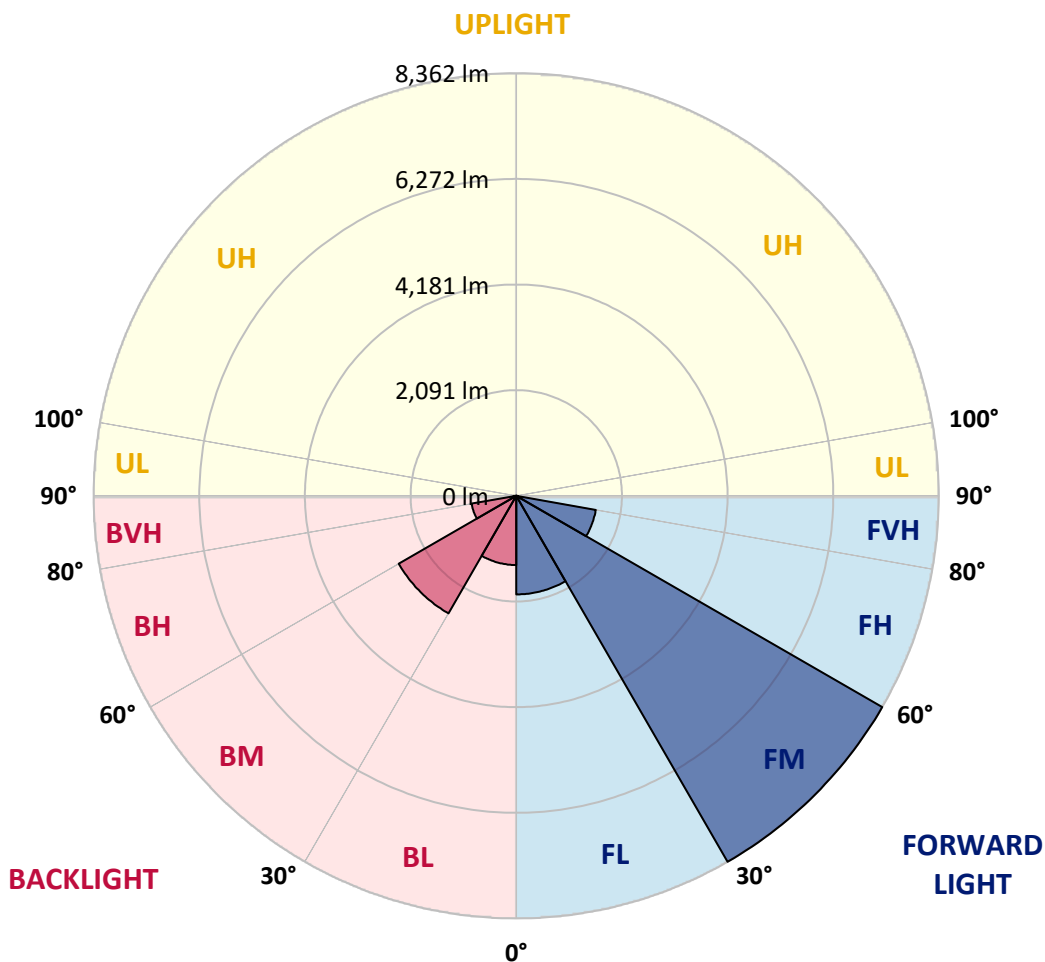


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.7	11.5			
FM (30°-60°)	8362.1	49.3			
FH (60°-80°)	1598.4	9.4			G1/1800
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	1369.6	8.1	B3/2500		
BM (30°-60°)	2685.6	15.8	B3/5000		
BH (60°-80°)	897.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.9	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°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
2.5°	4126.6	4116.0	4141.4	4160.4	4183.6	4213.2	4228.0	4236.5	4310.3	4291.3	4348.3
5°	4037.9	4010.5	4029.5	4044.2	4084.4	4120.2	4160.4	4223.8	4291.3	4320.9	4390.6
7.5°	3959.8	3945.0	3940.8	3951.4	4006.2	4052.7	4122.4	4215.3	4325.1	4373.7	4413.8
10°	3830.9	3809.8	3841.5	3911.2	3926.0	4023.1	4103.4	4236.5	4331.5	4415.9	4534.2
12.5°	3773.9	3752.8	3759.1	3799.2	3902.7	3995.7	4090.7	4240.7	4441.2	4475.0	4633.4
15°	3864.7	3843.6	3849.9	3839.4	3938.7	3987.2	4137.1	4325.1	4517.3	4574.3	4743.2
17.5°	4071.7	4073.8	4046.4	4023.1	3999.9	4103.4	4206.9	4375.8	4546.9	4690.5	4817.2
20°	4466.6	4396.9	4342.0	4211.1	4175.1	4219.5	4350.5	4513.1	4667.2	4785.5	4929.1
22.5°	4770.7	4777.0	4698.9	4483.5	4405.3	4424.3	4536.3	4669.3	4838.3	4922.8	5087.5
25°	5212.1	5167.8	5083.3	4912.2	4736.9	4751.7	4834.1	4954.4	5000.9	5060.0	5239.5
27.5°	5615.4	5628.1	5461.3	5300.8	5083.3	5041.0	5188.9	5210.0	5131.9	5243.8	5305.0
30°	6025.2	6014.6	5904.8	5716.9	5503.5	5512.0	5577.4	5474.0	5366.3	5427.5	5469.8
32.5°	6449.6	6329.3	6325.1	6156.1	5993.5	5915.3	5835.1	5885.8	5719.0	5731.6	5691.5
35°	6789.6	6806.5	6709.4	6589.1	6508.8	6371.5	6151.9	6242.7	6211.0	6196.2	6023.1
37.5°	7036.7	6971.3	7019.8	6979.7	6903.7	6732.6	6504.5	6591.2	6606.0	6677.7	6477.1
40°	7239.5	7212.1	7340.8	7361.9	7309.2	6939.6	6529.9	6787.5	7009.3	7165.6	6927.0
42.5°	7336.6	7395.8	7530.9	7693.6	7575.3	7180.4	6660.8	6937.5	7431.7	7678.8	7353.5
45°	7467.6	7391.5	7592.2	7889.9	7892.0	7383.1	6787.5	7140.3	7761.2	8120.1	7644.9
47.5°	7334.5	7372.5	7579.5	7957.5	8054.7	7596.4	7129.7	7427.5	8124.4	8443.3	7915.3
50°	7036.7	7112.8	7490.8	7883.6	8177.1	7822.4	7522.5	7737.9	8460.1	8703.0	7959.6
52.5°	6726.3	6768.5	7359.8	7940.6	8232.0	8113.8	8048.4	8166.6	8869.9	8996.6	8014.6
55°	5881.5	6082.2	6927.0	7915.3	8500.3	8639.7	8589.0	8762.1	9334.5	9461.2	8314.5
56°	5490.9	5596.4	6667.2	7797.0	8553.1	8831.8	8806.5	8884.7	9581.6	9714.6	8360.9
57.5°	4768.6	4777.0	5685.2	7273.3	8354.6	8888.9	8863.6	8924.8	9533.0	9442.2	7953.3
60°	2984.0	3115.0	3868.9	5594.3	7104.3	8246.8	8390.5	7898.4	8037.8	7845.6	6187.8
62.5°	1545.9	1526.9	2027.4	3271.3	4715.8	5904.8	6037.9	6014.6	5799.2	5518.3	4042.1
65°	770.9	775.1	1060.2	1619.8	2415.9	3091.8	3463.5	3503.6	2931.3	2696.8	1917.6
67.5°	559.7	580.8	762.4	990.4	1138.3	1273.4	1560.6	1531.1	1159.4	1102.4	1022.2
70°	435.0	454.1	618.8	756.1	686.3	686.3	747.6	773.0	825.8	849.0	876.4
72.5°	316.8	331.5	473.1	521.7	449.9	483.7	559.7	618.8	673.7	682.1	713.8
75°	217.5	230.2	310.4	287.2	270.3	333.7	409.7	464.7	504.8	525.9	544.9
77.5°	141.5	145.7	177.4	150.0	173.2	215.4	266.1	312.5	352.7	369.6	373.8
80°	63.3	69.7	76.0	95.0	120.3	154.2	190.1	228.1	253.4	259.8	272.4
82.5°	35.9	35.9	46.4	67.6	88.7	111.9	137.3	164.8	194.3	200.7	198.5
85°	19.0	19.0	27.4	40.1	54.9	65.4	63.3	65.4	69.7	80.2	78.1
87.5°	6.3	6.3	8.4	8.4	10.6	12.7	10.6	14.8	19.0	19.0	19.0
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°	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8	4337.8
2.5°	4331.5	4350.5	4325.1	4380.0	4380.0	4369.5	4316.7	4333.6	4346.2	4346.2	4356.8
5°	4413.8	4407.5	4424.3	4358.9	4318.8	4304.0	4217.4	4175.1	4139.2	4137.1	4105.5
7.5°	4460.2	4443.3	4437.0	4388.5	4211.1	4103.4	3917.5	3809.8	3786.6	3704.2	3735.9
10°	4534.2	4565.9	4534.2	4270.2	4023.1	3776.0	3594.4	3427.6	3362.1	3309.3	3277.6
12.5°	4686.2	4671.5	4487.7	4130.8	3784.5	3490.9	3220.6	3045.3	2979.8	2933.4	2929.2
15°	4815.1	4741.1	4460.2	3911.2	3412.8	3100.3	2878.5	2753.9	2724.3	2728.5	2747.5
17.5°	4859.4	4808.8	4316.7	3683.1	3136.1	2768.7	2665.2	2646.2	2673.6	2705.3	2713.7
20°	4929.1	4848.9	4257.6	3372.7	2794.0	2561.7	2555.4	2622.9	2673.6	2720.1	2726.4
22.5°	5074.8	4872.1	4065.4	3079.1	2559.6	2500.5	2561.7	2618.7	2696.8	2734.8	2701.1
25°	5117.1	4821.4	3795.0	2726.4	2411.7	2462.4	2527.9	2606.1	2660.9	2682.1	2696.8
27.5°	5153.0	4743.2	3429.7	2492.0	2365.3	2460.3	2527.9	2593.4	2622.9	2641.9	2658.8
30°	5254.3	4720.0	3112.9	2335.7	2335.7	2418.1	2504.7	2521.6	2561.7	2584.9	2614.5
32.5°	5305.0	4559.6	2787.7	2236.5	2306.2	2439.2	2445.5	2477.2	2479.4	2498.4	2466.7
35°	5438.1	4445.5	2485.7	2164.6	2318.8	2418.1	2449.7	2430.7	2327.3	2276.6	2287.2
37.5°	5535.2	4388.5	2268.2	2156.2	2320.9	2441.3	2458.2	2314.6	2206.9	2122.4	2143.5
40°	5797.1	4247.0	2103.4	2141.4	2339.9	2466.7	2420.2	2263.9	2069.6	1983.1	1968.3
42.5°	5997.7	4145.6	2000.0	2124.5	2354.7	2502.6	2401.2	2162.5	1964.1	1883.8	1904.9
45°	6230.0	4122.4	1945.1	2128.7	2380.1	2521.6	2377.9	2084.4	1873.2	1841.5	1835.2
47.5°	6312.4	3955.6	1885.9	2092.8	2373.7	2515.3	2299.8	2025.3	1839.4	1843.6	1860.5
50°	6175.1	3784.5	1841.5	2019.0	2331.5	2458.2	2177.3	1947.2	1820.4	1873.2	1902.8
52.5°	5999.9	3609.2	1750.7	1919.7	2244.9	2369.5	2120.3	1943.0	1801.4	1784.5	1790.9
55°	6052.6	3465.6	1624.1	1784.5	2105.5	2204.8	2057.0	1902.8	1755.0	1691.6	1712.7
56°	5881.5	3317.7	1541.6	1700.1	2010.5	2099.2	2025.3	1866.9	1717.0	1674.7	1674.7
57.5°	5398.0	2821.5	1434.0	1564.9	1809.9	1915.5	1964.1	1845.7	1674.7	1600.8	1602.9
60°	3980.9	2006.3	1286.1	1379.1	1499.4	1583.9	1809.9	1786.6	1569.1	1518.4	1499.4
62.5°	2454.0	1465.6	1180.5	1216.4	1277.6	1347.4	1579.7	1617.7	1457.2	1402.3	1389.6
65°	1374.9	1121.4	1100.3	1115.1	1144.6	1180.5	1311.5	1396.0	1286.1	1201.6	1197.4
67.5°	1005.2	1003.1	1020.0	1032.7	1045.4	1045.4	1077.1	1110.9	1096.1	1028.5	1022.2
70°	893.3	899.6	912.3	914.4	918.6	903.9	878.5	868.0	884.9	842.6	834.2
72.5°	737.1	758.2	773.0	775.1	751.9	732.8	699.0	663.1	650.4	642.0	639.9
75°	566.0	580.8	587.1	585.0	576.5	549.1	509.0	473.1	449.9	424.5	437.2
77.5°	382.2	403.3	413.9	413.9	401.2	359.0	340.0	312.5	289.3	261.9	266.1
80°	268.2	283.0	299.9	297.8	276.7	255.5	228.1	202.8	183.8	162.6	160.5
82.5°	200.7	209.1	217.5	213.3	198.5	177.4	158.4	135.1	114.0	99.2	99.2
85°	71.8	78.1	95.0	99.2	107.7	107.7	90.8	76.0	61.2	50.7	50.7
87.5°	21.1	21.1	23.2	23.2	21.1	23.2	19.0	21.1	23.2	14.8	14.8
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)