

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: P651966

Luminaire Tested: **GALN-SA6A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15083.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

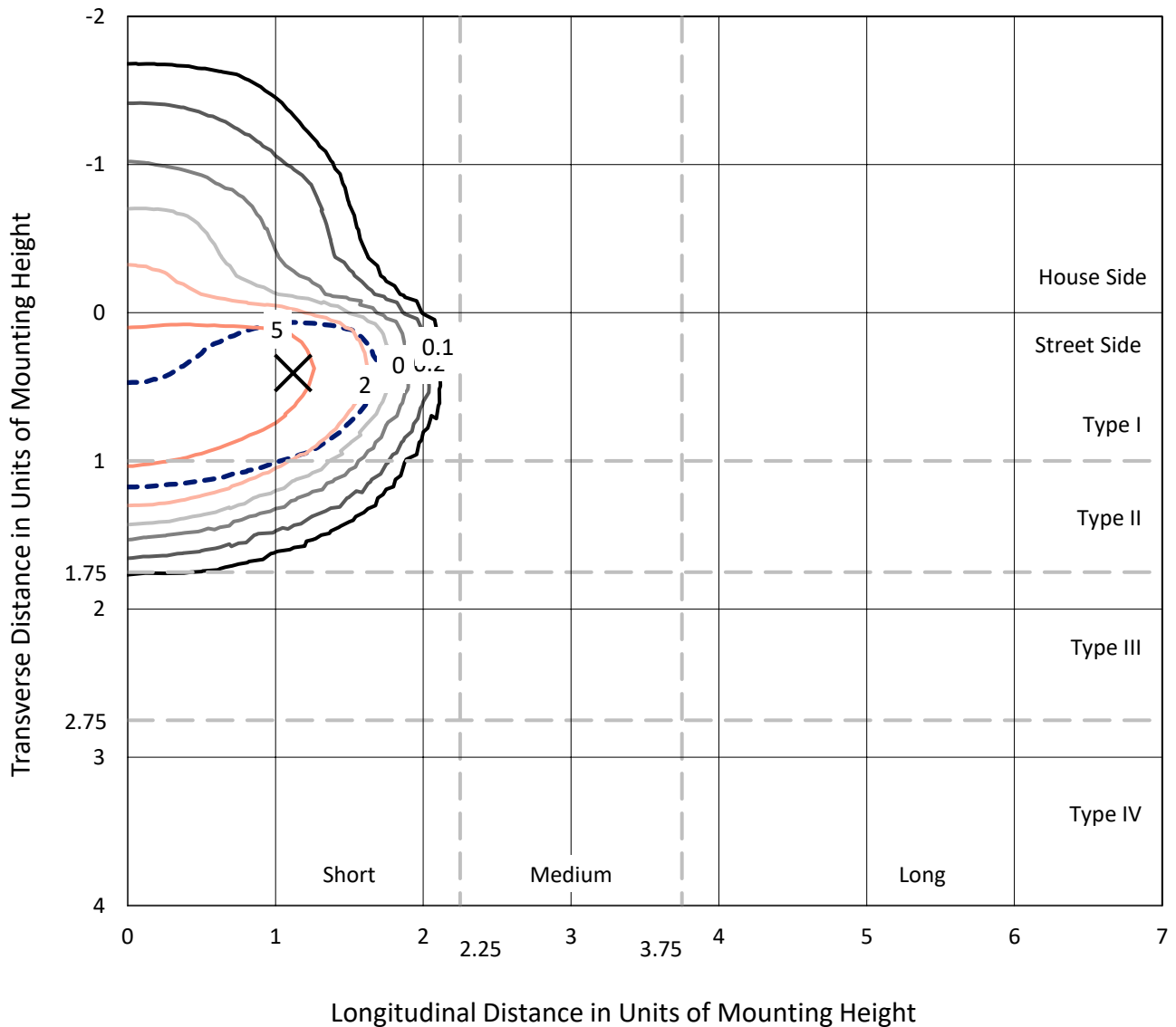
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

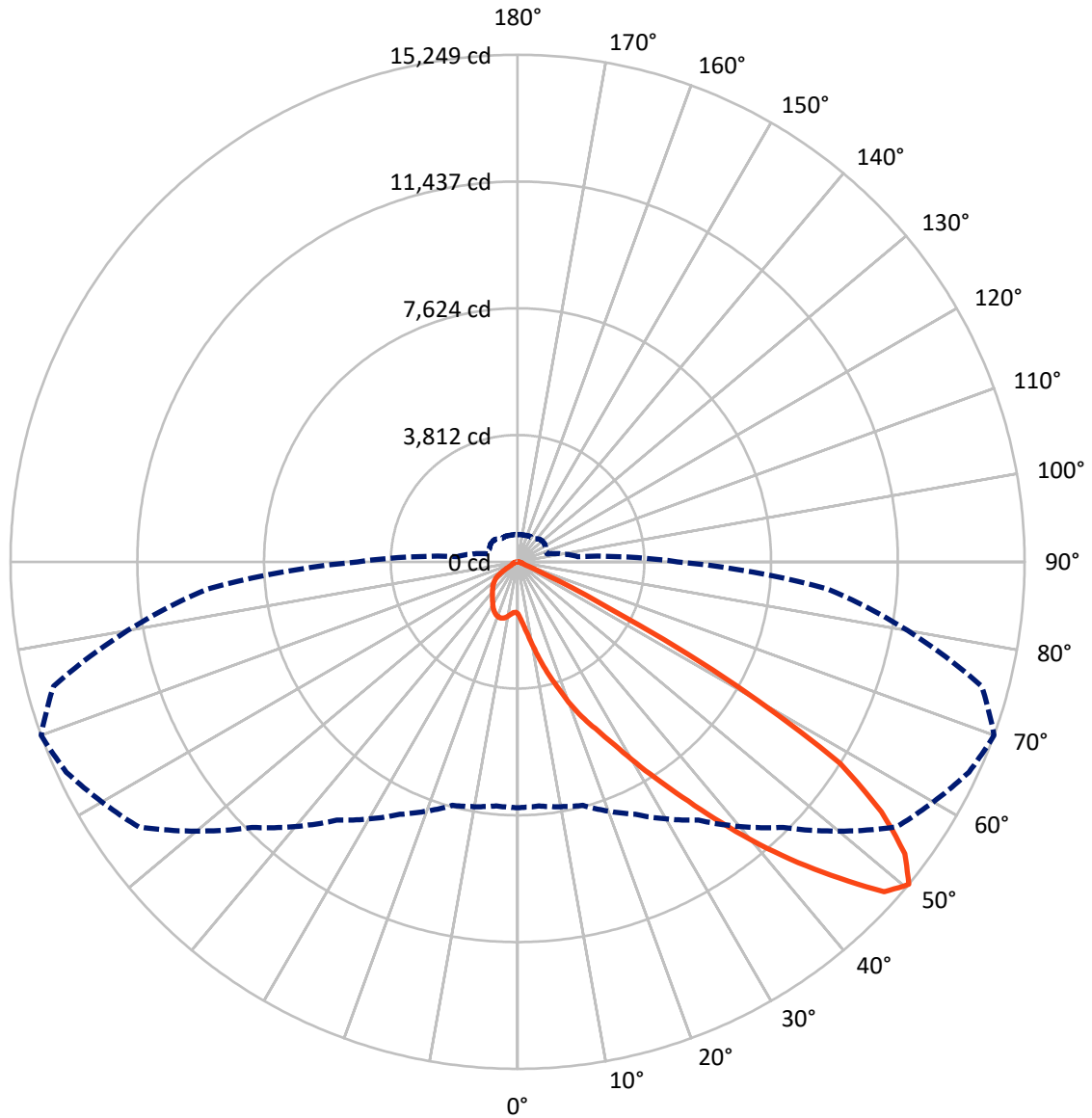
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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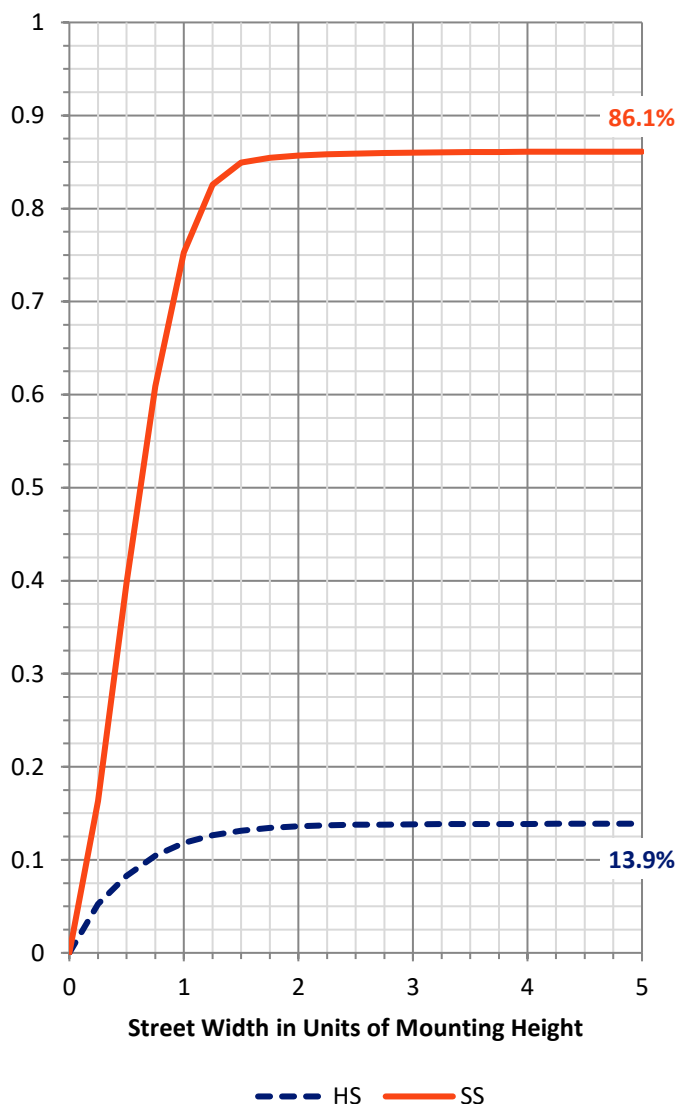
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2106.5	0.0	2106.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12976.8	0.0	12976.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	15083.3	0.0	15083.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.3
10°-20°	878.8	5.8
20°-30°	1843.6	12.2
30°-40°	3177.7	21.1
40°-50°	4644.2	30.8
50°-60°	3617.1	24.0
60°-70°	612.8	4.1
70°-80°	84.2	0.6
80°-90°	21.8	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°	15083.3	100.0
0°-180°	15083.3	100.0

Coefficient of Utilization



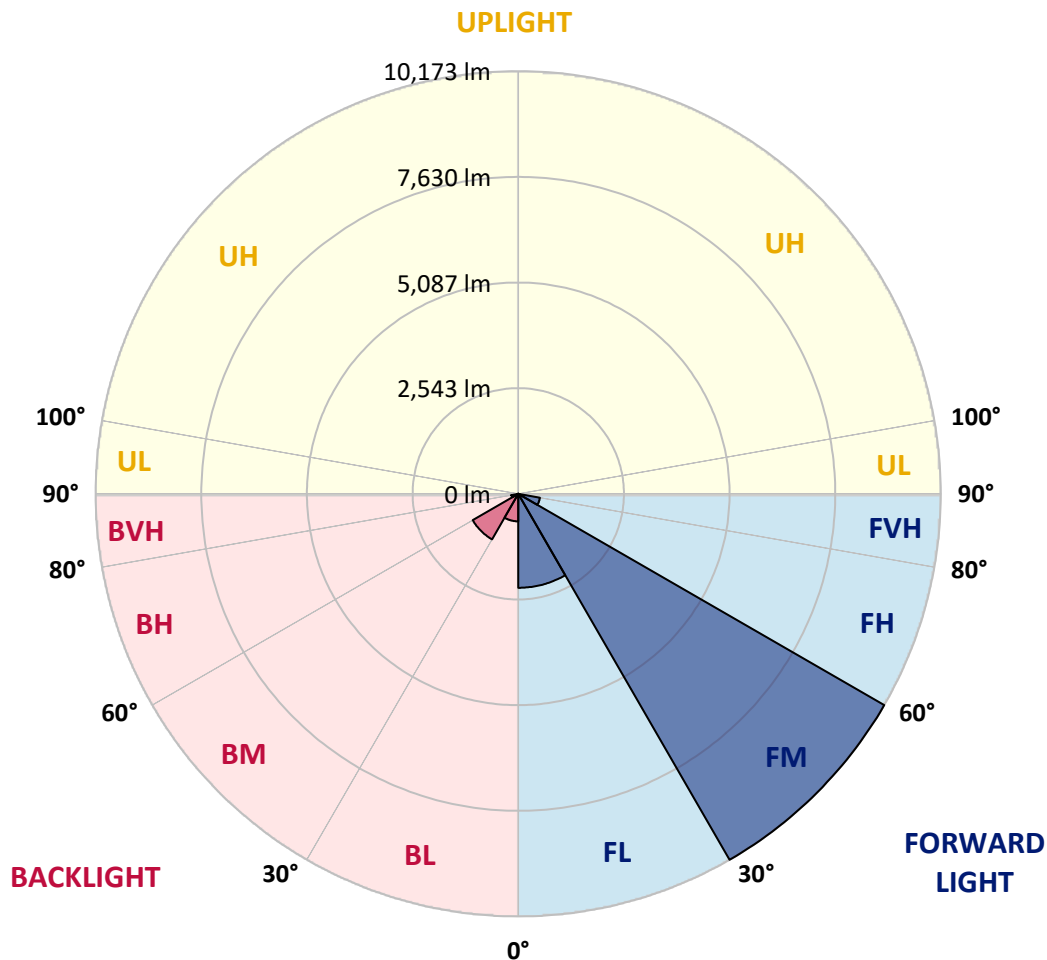
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.7	15.0			
FM (30°-60°)	10173.5	67.4			
FH (60°-80°)	530.6	3.5			G0/660
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	662.9	4.4	B2/1000		
BM (30°-60°)	1265.5	8.4	B2/2500		
BH (60°-80°)	166.4	1.1	B1/500		G1/500
BVH (80°-90°)	11.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3
2.5°	2045.9	2031.0	1998.8	1939.3	1914.5	1855.0	1820.3	1753.3	1711.1	1664.0	1611.9
5°	2881.6	2804.7	2757.6	2690.7	2494.7	2373.3	2172.4	2001.2	1921.9	1835.1	1716.1
7.5°	3744.6	3695.0	3630.6	3486.7	3352.8	3099.8	2755.2	2378.3	2217.0	2068.3	1832.6
10°	4458.9	4320.0	4312.6	4205.9	4059.6	3757.1	3342.9	2874.2	2586.5	2368.3	1998.8
12.5°	4957.4	4830.9	4887.9	4875.4	4739.1	4461.3	3982.7	3362.7	3062.7	2722.9	2169.9
15°	5411.2	5359.0	5341.7	5326.8	5272.2	5066.4	4637.4	3957.9	3524.0	3114.7	2363.4
17.5°	5855.0	5721.2	5785.6	5798.0	5793.1	5607.0	5205.3	4523.3	4012.5	3528.9	2566.7
20°	6249.4	6261.7	6175.0	6157.5	6142.7	6135.3	5743.4	5083.8	4612.6	3962.9	2832.1
22.5°	6755.2	6668.5	6745.3	6695.7	6599.0	6539.5	6239.5	5579.8	5133.4	4486.1	3102.4
25°	7352.9	7422.3	7241.3	7221.5	7114.9	6909.0	6638.7	6135.3	5634.4	4972.2	3394.9
27.5°	8089.4	7967.9	7920.8	7811.7	7618.3	7531.5	7214.0	6708.2	6239.5	5483.1	3677.7
30°	8721.8	8689.5	8454.0	8325.1	8156.4	8153.9	7710.0	7484.3	7028.1	6284.0	4067.1
32.5°	9237.6	9096.3	9009.5	8920.2	8783.8	8821.0	8446.5	8327.5	7868.7	7028.1	4525.8
35°	9582.4	9480.7	9428.5	9292.2	9252.5	9418.7	9262.4	9212.8	8835.9	8074.5	5063.9
37.5°	9691.4	9723.7	9713.8	9542.7	9626.9	10075.9	10276.7	10147.8	9949.4	9178.1	5646.7
40°	9788.1	9810.5	9760.9	9961.7	10202.3	10713.2	11439.8	11226.5	11152.1	10296.5	6457.6
42.5°	9842.7	9825.3	9825.3	10172.6	10537.1	11563.8	12563.2	12421.8	12364.8	11486.9	7395.1
45°	9607.2	9438.5	9619.5	10090.7	10824.8	11982.9	13460.9	13656.8	13575.0	12902.9	8491.2
47.5°	8726.8	8830.9	8932.6	9562.5	10475.1	11853.9	14011.4	14678.6	14829.8	14093.2	9210.4
50°	7395.1	7372.7	7583.5	8377.1	9485.6	11298.4	13904.8	14973.7	15248.9	14450.4	9361.6
52.5°	5378.9	5542.6	5770.7	6559.3	7873.7	9860.1	12528.5	14212.3	14579.3	14011.4	9262.4
55°	3132.1	2951.1	3464.4	4131.5	5371.5	7437.2	10591.6	12597.9	13277.4	13212.9	8761.5
57.5°	1254.9	1215.2	1391.2	1874.8	2802.3	4610.1	7702.6	10351.1	11439.8	12101.9	7700.1
60°	550.5	538.2	632.3	763.8	1145.7	2125.3	4213.3	6437.9	7573.6	8456.4	5299.6
62.5°	396.8	391.8	438.9	486.1	605.1	925.0	1770.6	2594.0	3233.8	3905.9	2373.3
65°	319.9	332.3	364.6	389.4	446.4	513.3	624.9	721.7	885.3	917.5	523.3
67.5°	260.4	270.3	300.1	327.3	337.2	277.8	287.7	253.0	253.0	225.6	181.1
70°	191.0	193.4	228.2	260.4	208.3	111.6	196.0	196.0	176.1	168.6	153.7
72.5°	141.4	143.8	171.1	161.2	81.8	69.5	143.8	158.7	143.8	136.4	124.0
75°	104.1	106.6	89.3	37.2	34.7	44.7	84.4	109.1	104.1	101.7	94.3
77.5°	19.8	14.9	12.4	17.3	24.8	37.2	54.6	66.9	69.5	74.4	69.5
80°	2.4	2.4	7.4	14.9	27.2	39.7	57.0	64.5	66.9	69.5	64.5
82.5°	0.0	2.4	7.4	14.9	27.2	37.2	49.6	57.0	62.0	64.5	62.0
85°	0.0	2.4	5.0	12.4	22.3	27.2	24.8	17.3	14.9	17.3	12.4
87.5°	0.0	0.0	2.4	2.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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°	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3	1562.3
2.5°	1582.2	1572.2	1537.5	1500.3	1468.1	1483.0	1468.1	1455.7	1460.6	1455.7	1450.7
5°	1669.0	1624.3	1550.0	1517.7	1490.4	1488.0	1480.5	1478.1	1480.5	1480.5	1458.2
7.5°	1750.8	1678.9	1599.5	1564.8	1532.6	1535.1	1517.7	1517.7	1515.2	1502.8	1497.8
10°	1874.8	1778.1	1676.4	1614.4	1574.8	1567.3	1550.0	1532.6	1532.6	1532.6	1507.7
12.5°	2011.2	1889.6	1750.8	1678.9	1631.8	1594.5	1567.3	1562.3	1535.1	1530.1	1517.7
15°	2130.3	1976.5	1800.4	1701.2	1641.7	1592.1	1550.0	1522.6	1510.3	1502.8	1492.9
17.5°	2246.8	2050.9	1827.7	1701.2	1636.8	1579.7	1535.1	1510.3	1480.5	1485.5	1465.6
20°	2403.0	2130.3	1835.1	1669.0	1589.6	1535.1	1475.5	1463.2	1445.8	1430.9	1435.8
22.5°	2554.3	2187.3	1812.8	1629.3	1515.2	1450.7	1421.0	1406.1	1398.7	1386.3	1368.9
25°	2690.7	2249.3	1778.1	1557.4	1435.8	1388.7	1361.5	1359.0	1341.6	1341.6	1309.4
27.5°	2829.5	2271.6	1718.6	1473.1	1366.5	1339.1	1326.8	1321.8	1314.3	1297.0	1274.7
30°	2988.2	2279.0	1631.8	1386.3	1304.4	1274.7	1292.0	1304.4	1272.2	1240.0	1249.9
32.5°	3119.7	2261.7	1527.6	1304.4	1259.8	1244.9	1279.7	1292.0	1254.9	1220.1	1202.7
35°	3278.4	2219.5	1425.9	1240.0	1215.2	1244.9	1274.7	1274.7	1200.3	1158.1	1148.2
37.5°	3519.0	2172.4	1331.7	1185.4	1168.1	1230.0	1269.7	1242.4	1125.8	1073.8	1061.4
40°	3776.8	2142.6	1240.0	1130.8	1143.3	1205.2	1227.5	1143.3	1024.2	992.0	982.0
42.5°	4151.3	2083.2	1158.1	1083.7	1120.9	1170.5	1170.5	1019.2	974.6	957.2	954.8
45°	4617.6	2040.9	1086.2	1044.0	1088.7	1101.0	1061.4	954.8	922.5	917.5	920.1
47.5°	4845.8	1959.1	1011.8	996.9	1029.1	1031.7	927.5	902.6	875.4	868.0	863.0
50°	4811.0	1812.8	915.1	934.9	979.6	954.8	845.6	850.6	825.8	823.3	810.9
52.5°	4568.0	1582.2	818.4	865.5	915.1	843.2	778.7	773.7	773.7	741.5	729.1
55°	4049.7	1274.7	701.8	761.4	820.8	709.2	691.9	686.9	674.6	644.8	637.3
57.5°	3206.5	934.9	528.2	592.7	696.9	602.6	600.1	577.9	545.6	523.3	523.3
60°	1907.1	538.2	332.3	362.1	461.3	488.5	543.1	533.2	478.6	443.9	434.0
62.5°	870.4	277.8	210.8	215.7	248.0	317.4	426.6	493.5	416.6	357.1	352.1
65°	292.7	205.8	173.6	166.2	171.1	191.0	255.4	349.7	332.3	275.3	265.3
67.5°	178.5	183.5	163.7	151.3	151.3	148.8	146.3	158.7	196.0	191.0	193.4
70°	153.7	168.6	151.3	136.4	131.4	124.0	104.1	86.8	74.4	86.8	91.8
72.5°	124.0	133.9	128.9	116.6	104.1	94.3	74.4	57.0	42.1	37.2	37.2
75°	91.8	99.2	104.1	89.3	79.4	66.9	54.6	37.2	22.3	14.9	14.9
77.5°	66.9	74.4	76.9	69.5	59.5	47.1	34.7	24.8	12.4	5.0	5.0
80°	57.0	66.9	74.4	69.5	62.0	44.7	32.2	17.3	9.9	2.4	2.4
82.5°	54.6	66.9	74.4	66.9	59.5	42.1	32.2	19.8	7.4	2.4	2.4
85°	12.4	17.3	22.3	27.2	32.2	32.2	24.8	14.9	7.4	2.4	2.4
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.4	2.4	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)