

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: P648061

Luminaire Tested: **GALN-SA7A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648061
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-SA7A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 16494.7 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

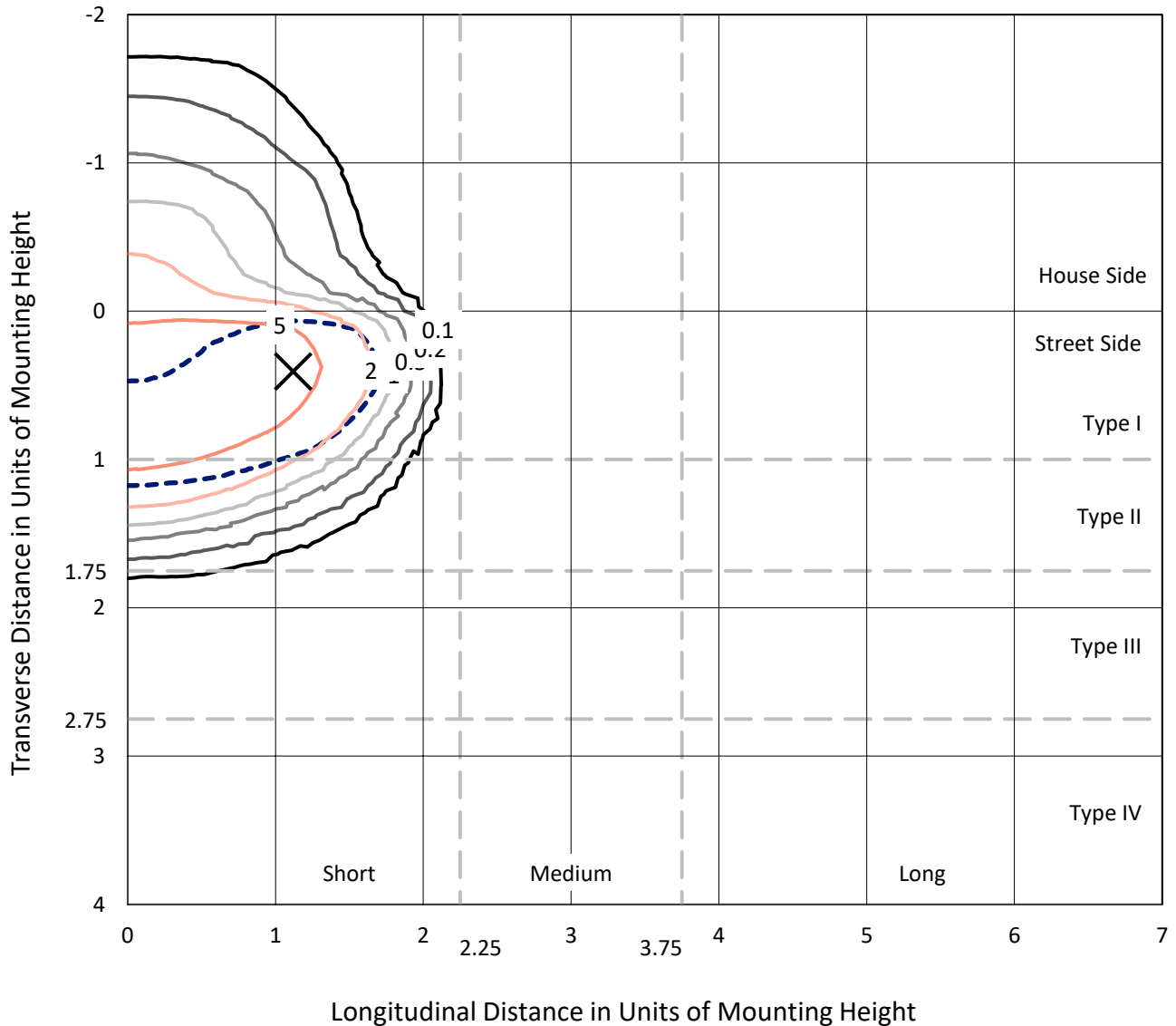
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

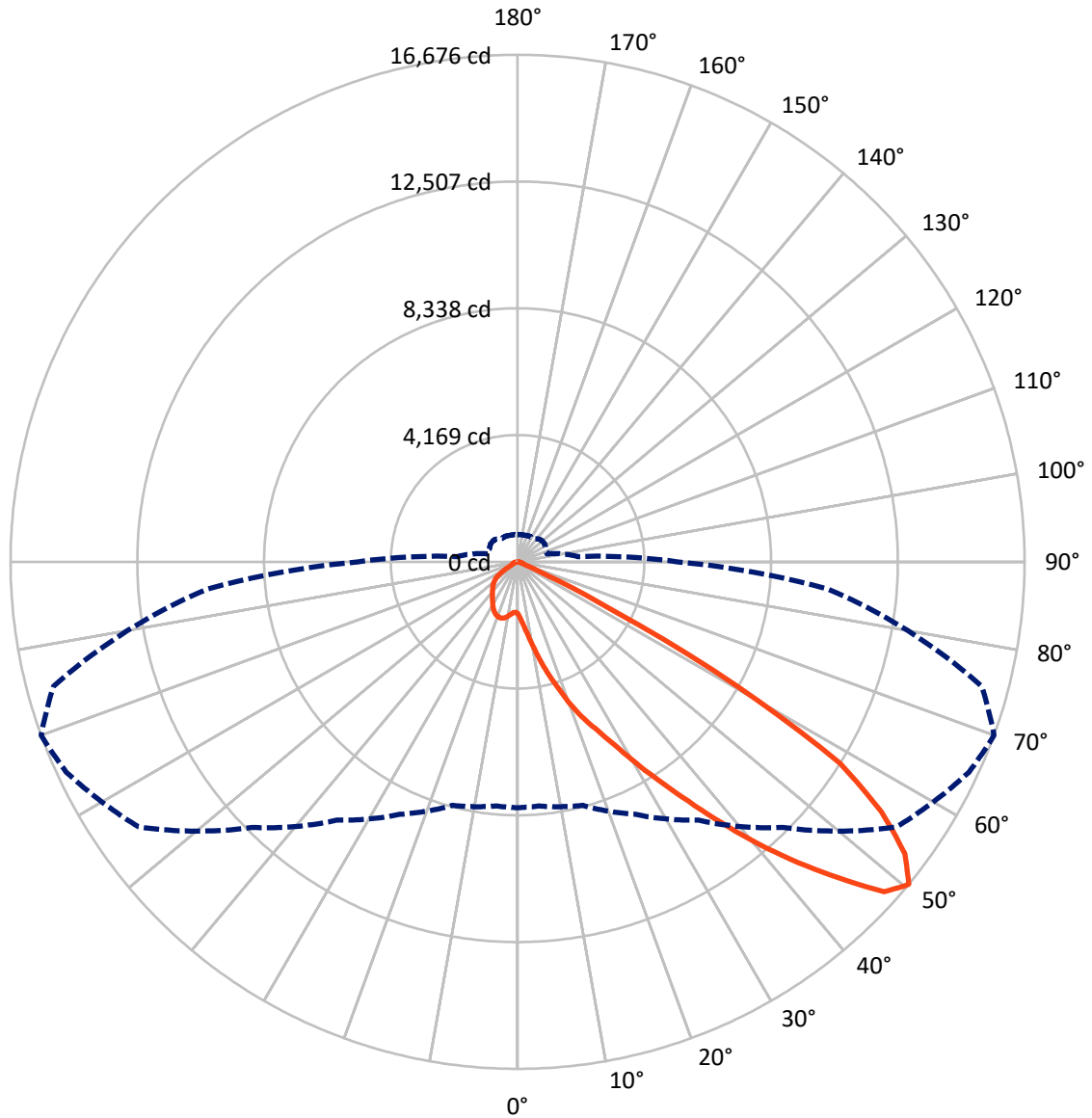
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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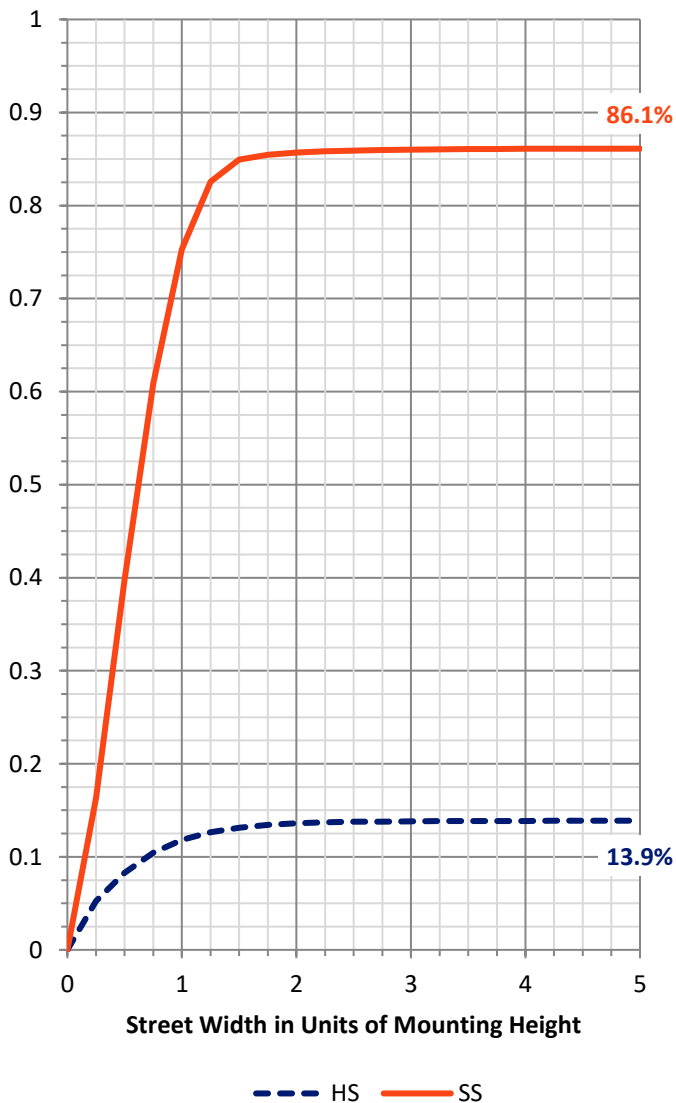
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.6	0.0	2303.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14191.1	0.0	14191.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	16494.7	0.0	16494.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.3
10°-20°	961.0	5.8
20°-30°	2016.1	12.2
30°-40°	3475.0	21.1
40°-50°	5078.7	30.8
50°-60°	3955.5	24.0
60°-70°	670.2	4.1
70°-80°	92.1	0.6
80°-90°	23.8	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°	16494.7	100.0
0°-180°	16494.7	100.0

Coefficient of Utilization



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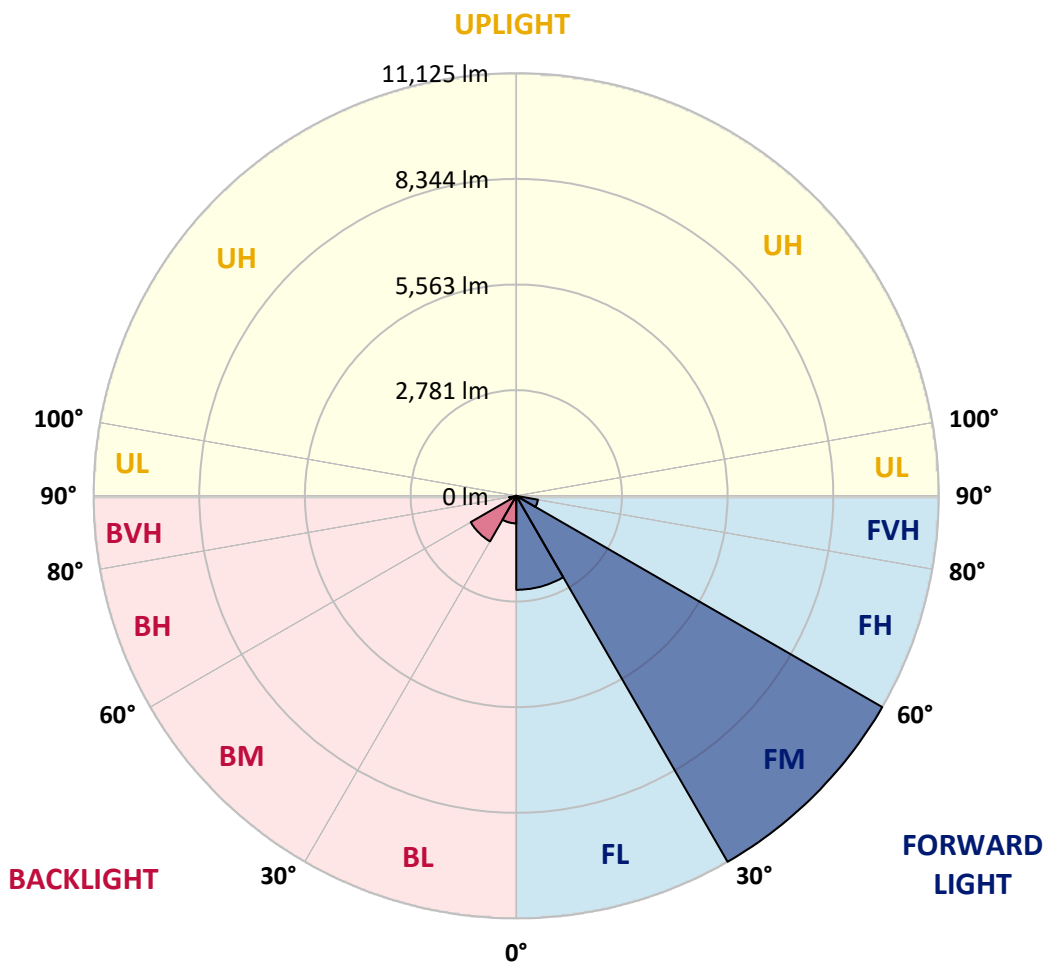
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.4	15.0			
FM (30°-60°)	11125.4	67.4			
FH (60°-80°)	580.3	3.5			G0/660
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	724.9	4.4	B2/1000		
BM (30°-60°)	1383.9	8.4	B2/2500		
BH (60°-80°)	182.0	1.1	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5
2.5°	2237.3	2221.1	2185.8	2120.8	2093.6	2028.5	1990.5	1917.3	1871.2	1819.7	1762.8
5°	3151.3	3067.2	3015.6	2942.4	2728.2	2595.3	2375.7	2188.6	2101.7	2006.8	1876.7
7.5°	4095.0	4040.8	3970.3	3813.0	3666.6	3389.9	3013.0	2600.7	2424.5	2261.8	2004.1
10°	4876.1	4724.2	4716.1	4599.4	4439.5	4108.6	3655.7	3143.1	2828.6	2589.9	2185.8
12.5°	5421.2	5282.9	5345.2	5331.7	5182.5	4878.8	4355.4	3677.4	3349.3	2977.7	2373.0
15°	5917.4	5860.5	5841.5	5825.3	5765.6	5540.5	5071.3	4328.3	3853.7	3406.2	2584.4
17.5°	6402.9	6256.5	6327.0	6340.5	6335.1	6131.7	5692.3	4946.6	4387.9	3859.1	2806.9
20°	6834.1	6847.6	6752.7	6733.7	6717.5	6709.4	6280.8	5559.5	5044.2	4333.7	3097.0
22.5°	7387.4	7292.4	7376.5	7322.2	7216.4	7151.4	6823.2	6101.8	5613.7	4905.9	3392.7
25°	8040.9	8116.8	7918.9	7897.2	7780.6	7555.5	7259.9	6709.4	6161.5	5437.5	3712.7
27.5°	8846.3	8713.5	8661.9	8542.6	8331.1	8236.1	7889.0	7335.8	6823.2	5996.1	4021.8
30°	9537.9	9502.6	9245.0	9104.0	8919.5	8916.9	8431.4	8184.6	7685.6	6872.1	4447.6
32.5°	10102.0	9947.4	9852.5	9754.8	9605.7	9646.4	9236.9	9106.7	8605.0	7685.6	4949.3
35°	10479.0	10367.8	10310.8	10161.6	10118.2	10300.0	10129.1	10074.9	9662.7	8830.0	5537.8
37.5°	10598.3	10633.5	10622.6	10435.6	10527.7	11018.6	11238.3	11097.3	10880.3	10036.9	6175.1
40°	10704.0	10728.4	10674.2	10893.9	11157.0	11715.6	12510.2	12277.0	12195.6	11260.0	7061.9
42.5°	10763.7	10744.7	10744.7	11124.4	11523.0	12645.8	13738.7	13584.1	13521.8	12561.7	8087.0
45°	10506.1	10321.7	10519.6	11034.9	11837.6	13104.1	14720.4	14934.6	14845.2	14110.2	9285.7
47.5°	9543.4	9657.2	9768.4	10457.3	11455.2	12963.1	15322.4	16052.0	16217.4	15411.9	10072.1
50°	8087.0	8062.6	8293.1	9160.9	10373.2	12355.6	15205.9	16374.7	16675.7	15802.5	10237.6
52.5°	5882.2	6061.2	6310.7	7173.1	8610.4	10782.7	13700.7	15542.2	15943.5	15322.4	10129.1
55°	3425.2	3227.2	3788.5	4518.1	5874.1	8133.1	11582.7	13776.7	14519.7	14449.2	9581.3
57.5°	1372.2	1328.8	1521.4	2050.2	3064.5	5041.5	8423.3	11319.7	12510.2	13234.3	8420.6
60°	602.0	588.5	691.5	835.3	1253.0	2324.1	4607.6	7040.2	8282.3	9247.7	5795.5
62.5°	433.9	428.5	480.0	531.6	661.7	1011.6	1936.4	2836.7	3536.3	4271.3	2595.3
65°	349.8	363.4	398.6	425.8	488.1	561.4	683.4	789.2	968.2	1003.4	572.2
67.5°	284.8	295.6	328.2	358.0	368.8	303.7	314.6	276.6	276.6	246.8	197.9
70°	208.8	211.6	249.5	284.8	227.8	122.1	214.2	214.2	192.5	184.4	168.1
72.5°	154.6	157.3	187.1	176.3	89.5	76.0	157.3	173.6	157.3	149.2	135.6
75°	113.9	116.6	97.6	40.7	38.0	48.8	92.2	119.3	113.9	111.2	103.0
77.5°	21.7	16.3	13.5	18.9	27.1	40.7	59.7	73.2	76.0	81.4	76.0
80°	2.7	2.7	8.1	16.3	29.8	43.4	62.4	70.5	73.2	76.0	70.5
82.5°	0.0	2.7	8.1	16.3	29.8	40.7	54.3	62.4	67.8	70.5	67.8
85°	0.0	2.7	5.4	13.5	24.4	29.8	27.1	18.9	16.3	18.9	13.5
87.5°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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°	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5	1708.5
2.5°	1730.2	1719.4	1681.4	1640.7	1605.5	1621.7	1605.5	1591.9	1597.3	1591.9	1586.5
5°	1825.2	1776.3	1695.0	1659.7	1629.9	1627.2	1619.0	1616.3	1619.0	1619.0	1594.7
7.5°	1914.7	1836.0	1749.2	1711.2	1676.0	1678.7	1659.7	1659.7	1657.0	1643.4	1638.0
10°	2050.2	1944.4	1833.2	1765.5	1722.1	1713.9	1695.0	1676.0	1676.0	1676.0	1648.8
12.5°	2199.4	2066.5	1914.7	1836.0	1784.5	1743.7	1713.9	1708.5	1678.7	1673.3	1659.7
15°	2329.6	2161.4	1968.9	1860.4	1795.3	1741.1	1695.0	1665.1	1651.6	1643.4	1632.6
17.5°	2457.1	2242.7	1998.7	1860.4	1789.9	1727.5	1678.7	1651.6	1619.0	1624.5	1602.7
20°	2627.9	2329.6	2006.8	1825.2	1738.3	1678.7	1613.6	1600.1	1581.0	1564.8	1570.2
22.5°	2793.3	2391.9	1982.4	1781.7	1657.0	1586.5	1553.9	1537.7	1529.5	1516.0	1497.0
25°	2942.4	2459.7	1944.4	1703.1	1570.2	1518.7	1488.9	1486.1	1467.2	1467.2	1431.9
27.5°	3094.3	2484.1	1879.4	1610.9	1494.3	1464.4	1450.9	1445.5	1437.4	1418.3	1394.0
30°	3267.9	2492.3	1784.5	1516.0	1426.5	1394.0	1412.9	1426.5	1391.2	1356.0	1366.8
32.5°	3411.6	2473.3	1670.5	1426.5	1377.7	1361.4	1399.4	1412.9	1372.2	1334.3	1315.3
35°	3585.2	2427.2	1559.3	1356.0	1328.8	1361.4	1394.0	1394.0	1312.5	1266.5	1255.6
37.5°	3848.2	2375.7	1456.3	1296.3	1277.3	1345.1	1388.5	1358.7	1231.2	1174.3	1160.7
40°	4130.3	2343.1	1356.0	1236.7	1250.2	1318.0	1342.4	1250.2	1120.0	1084.8	1074.0
42.5°	4539.8	2278.1	1266.5	1185.1	1225.8	1280.0	1280.0	1114.6	1065.8	1046.8	1044.1
45°	5049.6	2231.9	1187.8	1141.7	1190.6	1204.1	1160.7	1044.1	1008.8	1003.4	1006.2
47.5°	5299.1	2142.4	1106.5	1090.2	1125.5	1128.1	1014.3	987.1	957.3	949.2	943.7
50°	5261.1	1982.4	1000.7	1022.4	1071.2	1044.1	924.8	930.2	903.1	900.4	886.8
52.5°	4995.4	1730.2	895.0	946.5	1000.7	922.1	851.5	846.1	846.1	810.9	797.3
55°	4428.6	1394.0	767.5	832.6	897.6	775.6	756.6	751.2	737.7	705.1	696.9
57.5°	3506.5	1022.4	577.6	648.2	762.1	659.0	656.3	631.9	596.6	572.2	572.2
60°	2085.5	588.5	363.4	396.0	504.4	534.2	593.9	583.1	523.4	485.5	474.6
62.5°	951.9	303.7	230.5	235.9	271.2	347.1	466.4	539.6	455.6	390.5	385.1
65°	320.0	225.1	189.8	181.7	187.1	208.8	279.3	382.4	363.4	301.1	290.2
67.5°	195.3	200.7	179.0	165.4	165.4	162.7	160.0	173.6	214.2	208.8	211.6
70°	168.1	184.4	165.4	149.2	143.8	135.6	113.9	94.9	81.4	94.9	100.4
72.5°	135.6	146.4	141.0	127.5	113.9	103.0	81.4	62.4	46.1	40.7	40.7
75°	100.4	108.4	113.9	97.6	86.8	73.2	59.7	40.7	24.4	16.3	16.3
77.5°	73.2	81.4	84.1	76.0	65.1	51.5	38.0	27.1	13.5	5.4	5.4
80°	62.4	73.2	81.4	76.0	67.8	48.8	35.2	18.9	10.9	2.7	2.7
82.5°	59.7	73.2	81.4	73.2	65.1	46.1	35.2	21.7	8.1	2.7	2.7
85°	13.5	18.9	24.4	29.8	35.2	35.2	27.1	16.3	8.1	2.7	2.7
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	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)