

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: P650814

Luminaire Tested: **GALN-SA3C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17988.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

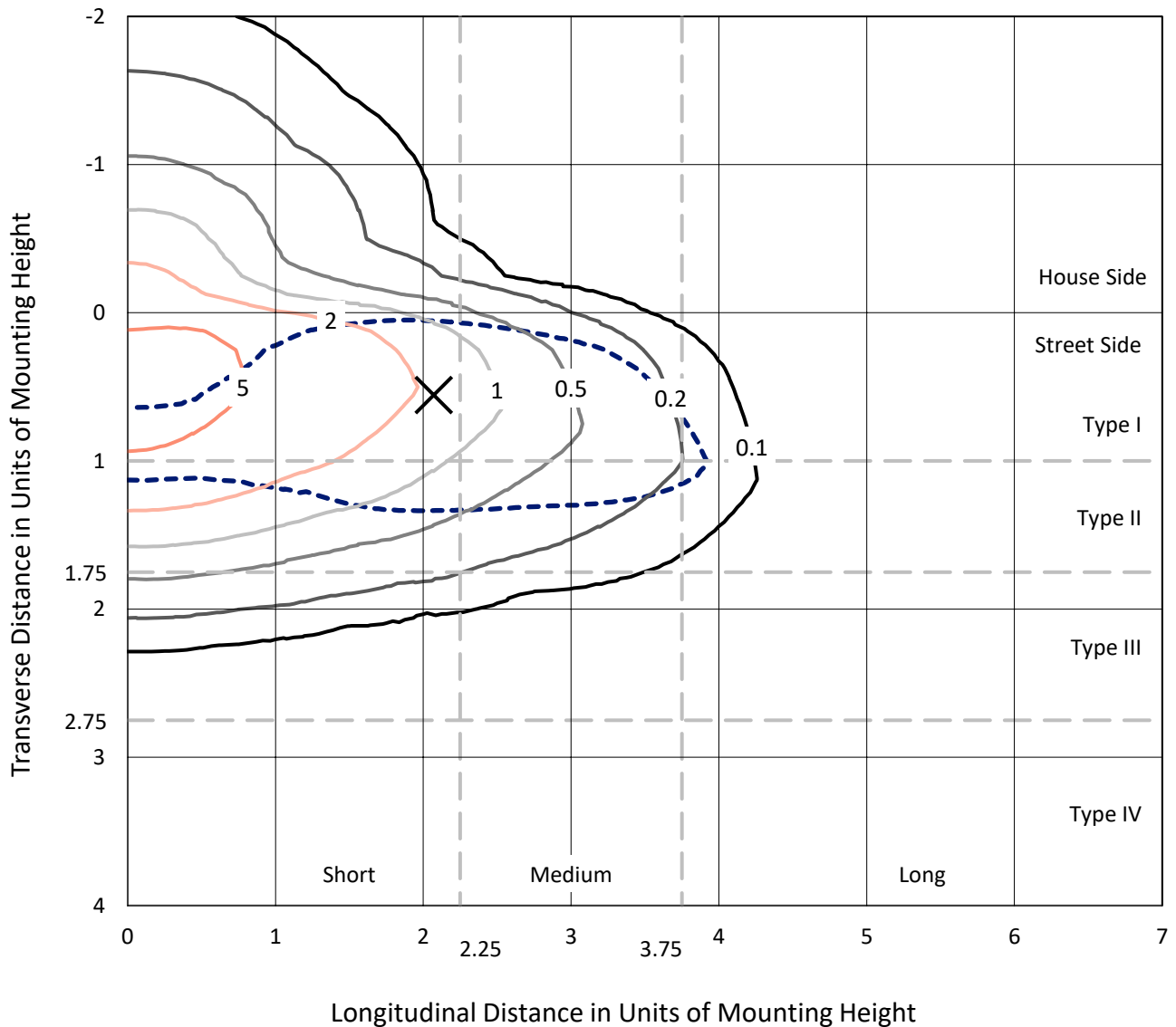
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

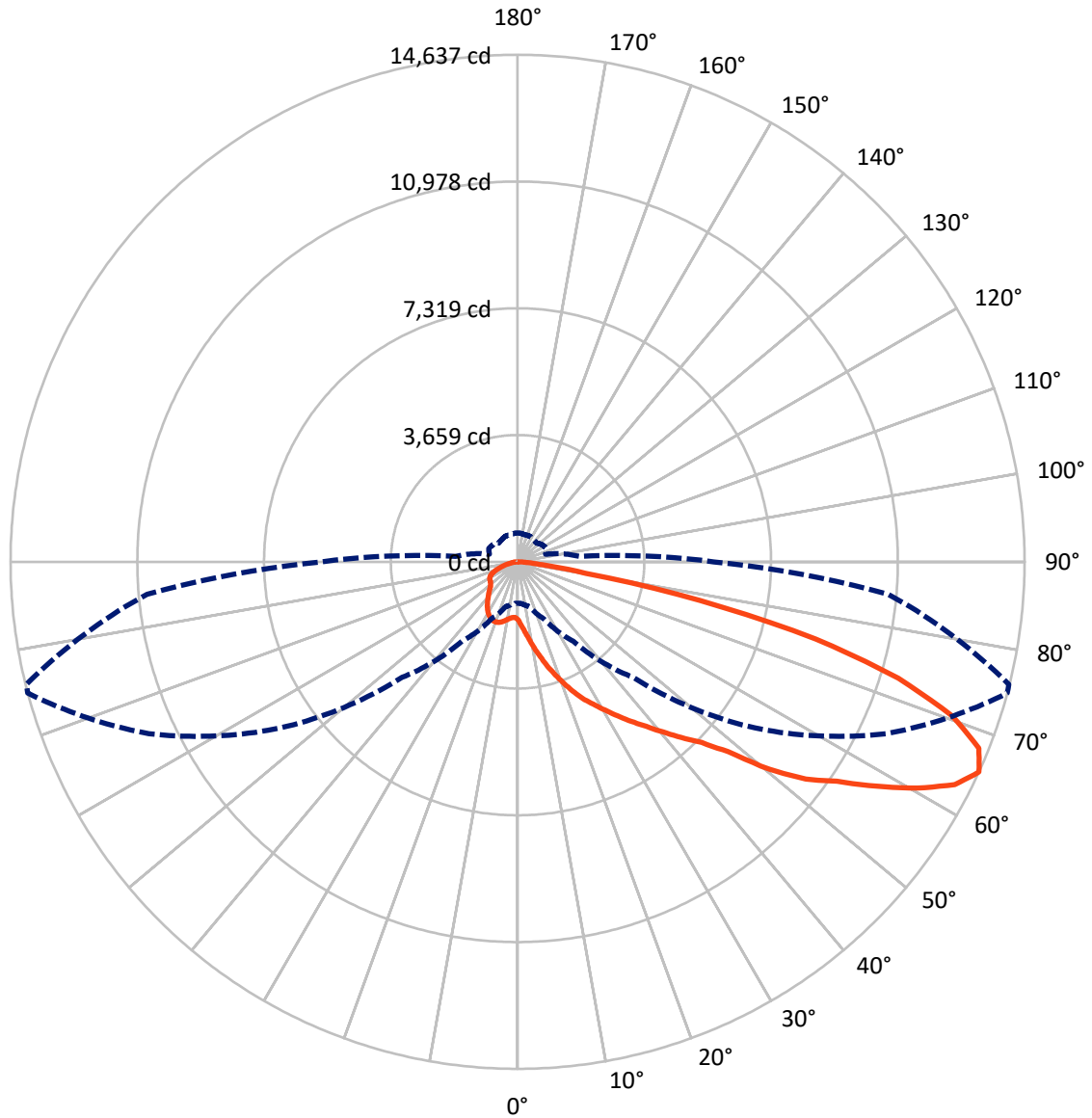
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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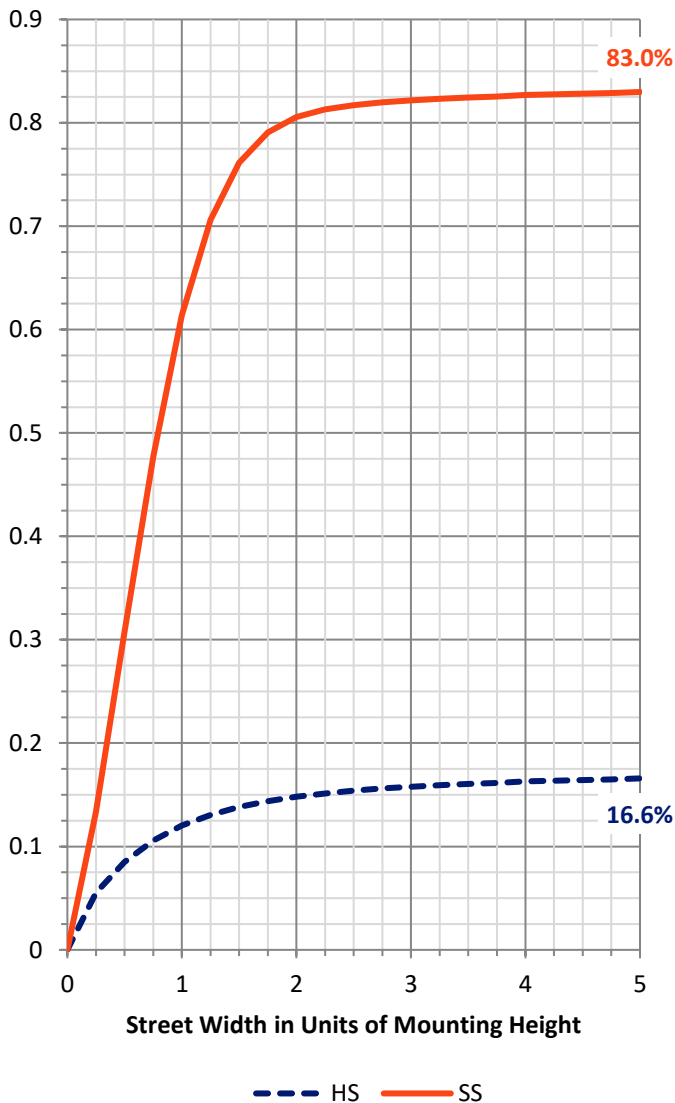
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3024.1	0.0	3024.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14964.1	0.0	14964.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	17988.2	0.0	17988.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.1
10°-20°	795.4	4.4
20°-30°	1536.4	8.5
30°-40°	2495.5	13.9
40°-50°	3432.8	19.1
50°-60°	4053.0	22.5
60°-70°	3551.1	19.7
70°-80°	1695.3	9.4
80°-90°	225.6	1.3
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°	17988.2	100.0
0°-180°	17988.2	100.0

Coefficient of Utilization

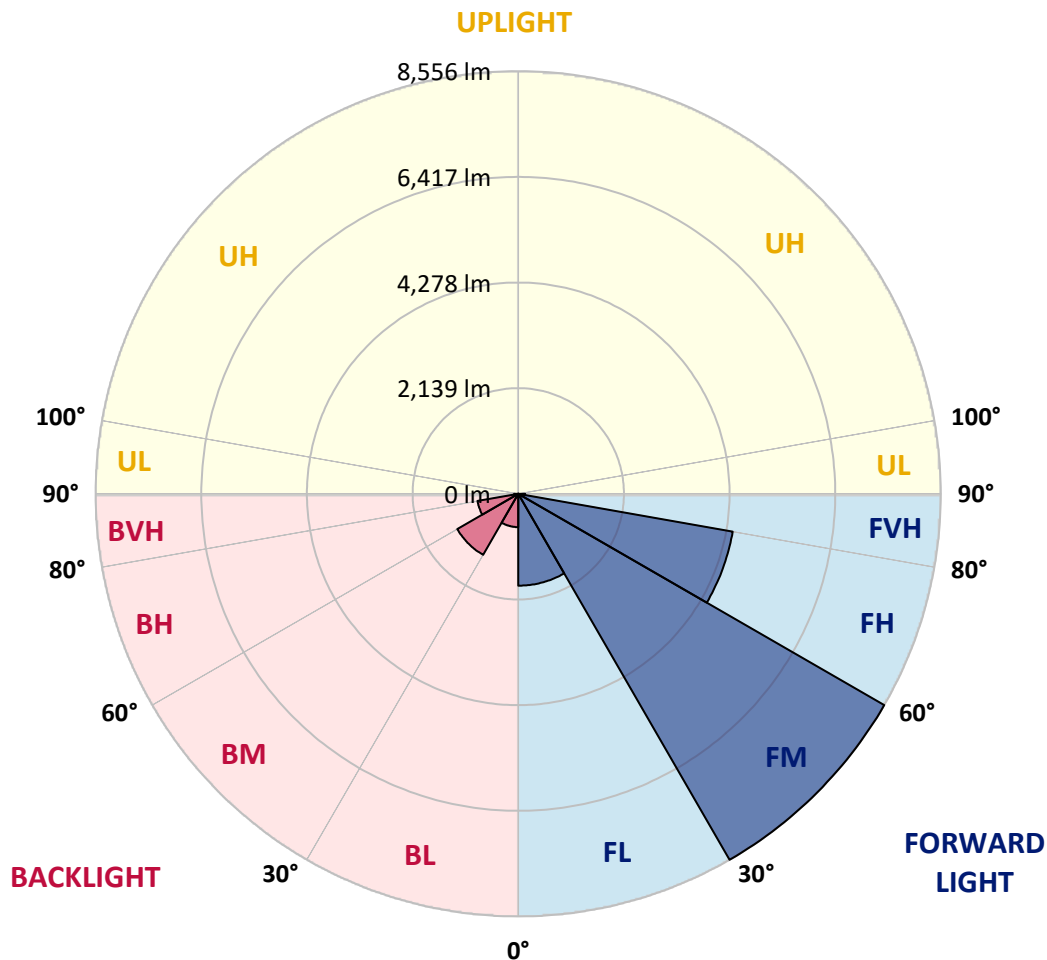


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.7	10.3			
FM (30°-60°)	8555.6	47.6			
FH (60°-80°)	4407.9	24.5			G2/5000
FVH (80°-90°)	141.0	0.8			G2/225
BL (0°-30°)	675.1	3.8	B2/1000		
BM (30°-60°)	1425.8	7.9	B2/2500		
BH (60°-80°)	838.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	84.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3
2.5°	2220.7	2206.0	2190.4	2147.5	2101.6	2049.9	1975.8	1904.5	1809.8	1807.0	1736.7
5°	2836.3	2826.5	2757.2	2717.3	2610.9	2469.4	2349.4	2163.1	1990.4	1969.9	1833.3
7.5°	3402.2	3364.1	3337.8	3265.6	3160.2	2978.7	2746.5	2494.8	2206.0	2178.7	1952.3
10°	3828.6	3824.6	3811.0	3748.5	3669.5	3489.0	3231.5	2870.4	2479.2	2425.5	2096.7
12.5°	4147.6	4150.5	4148.6	4147.6	4091.0	3937.8	3658.8	3278.2	2755.3	2717.3	2263.6
15°	4357.4	4386.7	4398.3	4447.1	4452.0	4349.6	4109.5	3672.4	3066.5	3009.9	2443.1
17.5°	4495.9	4510.5	4565.2	4648.1	4715.4	4696.9	4483.2	4037.3	3384.6	3290.0	2629.5
20°	4628.6	4653.9	4695.9	4809.1	4928.1	4982.8	4832.5	4411.0	3699.7	3639.3	2835.3
22.5°	4904.7	4940.8	4955.4	5013.0	5114.5	5211.1	5142.8	4769.1	4045.1	3963.2	3053.8
25°	5372.1	5410.1	5369.1	5355.5	5388.6	5436.5	5421.8	5106.6	4371.0	4253.9	3260.7
27.5°	5980.9	5985.7	5905.8	5829.6	5747.6	5723.3	5678.4	5406.2	4653.9	4556.4	3468.5
30°	6634.6	6611.2	6478.5	6340.9	6202.4	6065.7	5937.0	5695.0	4969.1	4856.9	3672.4
32.5°	7241.4	7228.7	7081.4	6867.8	6633.6	6504.8	6244.3	5986.7	5306.7	5198.4	3882.2
35°	7696.1	7714.7	7552.7	7319.5	7063.9	6949.7	6620.9	6293.1	5656.0	5537.9	4110.5
37.5°	8019.0	8009.3	7865.9	7663.9	7439.5	7340.0	7061.0	6627.8	6031.6	5918.5	4360.2
40°	8134.2	8128.3	8022.0	7874.6	7732.2	7697.1	7521.5	6988.7	6461.9	6329.2	4660.8
42.5°	8061.0	8073.7	8003.5	7963.4	7937.1	7962.4	7979.1	7461.9	6931.2	6809.2	4986.6
45°	7836.6	7829.8	7820.0	7885.4	8033.7	8200.5	8431.8	7908.8	7441.4	7343.9	5423.8
47.5°	7435.6	7484.4	7508.8	7689.3	8013.2	8408.3	8952.8	8507.9	8182.0	8097.1	6090.2
50°	6874.6	6913.6	7058.0	7379.0	7862.0	8486.4	9462.1	9487.4	9417.2	9258.1	6814.1
52.5°	5998.4	6058.9	6356.5	6944.8	7551.7	8454.2	9770.4	10327.5	10420.2	10301.2	7527.3
55°	5017.9	5102.8	5417.0	6188.7	7124.4	8278.6	9983.1	10814.3	11184.1	11073.9	8214.2
57.5°	4057.8	4147.6	4470.5	5217.9	6379.0	7890.3	10122.6	11356.9	12224.2	12080.8	9068.8
60°	3041.1	3134.8	3411.9	4181.7	5317.4	7131.2	10027.9	11827.1	13263.3	13201.8	9924.6
62.5°	1962.1	2065.5	2306.5	2943.6	4087.1	6094.1	9521.5	12086.6	14162.9	14088.7	10549.0
65°	1195.2	1206.9	1339.6	1827.4	2797.3	4718.3	8363.5	11742.2	14637.0	14614.6	10739.2
67.5°	772.7	791.3	851.8	1094.7	1677.2	3277.3	6687.3	10605.5	14359.9	14352.2	10346.1
70°	652.7	658.6	685.9	738.6	974.7	1987.5	4695.9	8793.7	13307.2	13307.2	9400.6
72.5°	583.5	591.2	601.0	617.6	695.7	1125.9	2802.1	6845.3	11489.5	11565.6	8001.5
75°	529.8	527.8	533.7	536.6	593.2	735.6	1448.9	5062.7	8888.4	8736.1	5794.5
77.5°	453.7	456.6	453.7	466.3	523.9	560.0	735.6	3397.3	5386.7	5189.6	2908.5
80°	372.7	377.6	382.5	390.3	447.8	425.4	441.9	1548.4	1992.3	1950.4	898.6
82.5°	280.1	286.9	294.7	313.2	352.2	281.0	279.0	661.5	719.1	658.6	330.8
85°	113.2	133.6	201.9	220.5	221.5	154.2	171.7	276.1	293.7	286.9	129.8
87.5°	26.3	31.2	65.3	98.6	90.7	57.5	63.4	89.7	102.4	94.6	43.9
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°	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3
2.5°	1704.5	1670.3	1611.8	1567.0	1534.7	1506.4	1488.9	1478.1	1474.3	1473.3	1474.3
5°	1762.1	1701.6	1608.9	1550.4	1518.2	1499.6	1488.9	1487.9	1488.9	1489.8	1486.9
7.5°	1841.1	1754.2	1633.3	1578.6	1554.3	1540.6	1535.7	1533.7	1534.7	1533.7	1533.7
10°	1946.5	1827.4	1681.1	1624.5	1604.0	1588.4	1580.6	1575.7	1571.8	1567.9	1565.9
12.5°	2062.6	1908.4	1732.8	1678.1	1648.9	1624.5	1606.9	1594.3	1585.5	1576.7	1574.8
15°	2192.3	1994.3	1790.3	1714.3	1672.3	1636.2	1606.0	1585.5	1569.9	1557.2	1556.2
17.5°	2316.3	2075.3	1829.3	1730.9	1669.4	1618.7	1578.6	1550.4	1530.8	1514.2	1512.3
20°	2448.9	2152.4	1846.9	1720.1	1640.1	1578.6	1525.9	1491.8	1469.4	1450.8	1447.9
22.5°	2582.6	2217.7	1845.0	1686.0	1589.4	1517.2	1461.6	1425.5	1399.1	1380.6	1373.8
25°	2710.5	2270.4	1820.6	1631.3	1519.1	1444.0	1387.4	1354.3	1330.8	1308.3	1308.3
27.5°	2825.5	2301.6	1774.8	1565.0	1446.9	1367.9	1323.0	1292.8	1271.3	1256.7	1247.9
30°	2938.7	2316.3	1712.3	1481.1	1370.8	1303.5	1267.4	1249.8	1230.3	1213.7	1211.8
32.5°	3040.2	2313.3	1634.2	1399.1	1298.6	1250.8	1236.2	1222.5	1202.0	1178.6	1172.8
35°	3138.7	2293.8	1541.6	1309.4	1238.1	1219.6	1223.5	1204.0	1166.9	1137.6	1132.7
37.5°	3246.1	2258.7	1440.1	1236.2	1187.4	1205.0	1214.7	1171.8	1111.3	1065.5	1054.7
40°	3370.0	2218.6	1334.8	1163.0	1147.4	1191.3	1191.3	1112.3	1029.3	1001.0	993.2
42.5°	3515.4	2185.5	1247.0	1101.5	1114.2	1158.1	1153.3	1033.3	999.1	984.5	980.5
45°	3745.6	2173.8	1156.2	1047.9	1086.9	1119.1	1079.1	1005.9	986.4	974.7	970.8
47.5°	4109.5	2187.4	1076.1	1007.9	1055.7	1080.1	996.2	987.4	973.7	957.1	955.2
50°	4447.1	2174.7	1019.5	985.4	1028.4	1033.3	962.0	965.0	957.1	938.6	934.7
52.5°	4723.2	2134.8	983.5	973.7	1004.9	951.3	929.8	940.6	937.6	914.2	910.3
55°	5026.7	2110.4	965.9	973.7	989.4	880.0	899.5	915.2	911.3	894.7	893.7
57.5°	5394.5	2115.3	953.3	976.7	973.7	843.9	869.3	887.8	886.9	882.0	882.0
60°	5771.1	2117.2	933.7	975.6	955.2	815.7	838.1	864.5	866.4	869.3	869.3
62.5°	5896.0	2032.4	895.7	958.2	914.2	788.4	808.9	845.0	843.0	850.8	851.8
65°	5662.8	1797.2	839.1	918.1	861.5	768.8	786.4	819.6	808.9	829.3	833.3
67.5°	5154.5	1486.9	751.3	845.9	803.0	748.3	771.8	784.4	764.9	804.9	805.9
70°	4454.9	1161.1	640.0	743.4	736.6	726.9	760.0	740.5	713.3	762.0	752.3
72.5°	3725.1	886.9	511.2	607.9	647.8	694.7	739.6	684.0	645.9	660.5	642.9
75°	2798.3	655.6	410.7	476.1	539.6	648.8	721.0	615.6	557.1	543.5	539.6
77.5°	1426.4	428.3	307.3	356.1	404.9	586.3	695.7	535.6	461.5	440.0	430.3
80°	509.3	266.3	216.6	245.9	273.2	504.4	607.9	443.0	358.1	354.1	358.1
82.5°	236.2	171.7	145.4	161.0	162.0	336.6	463.5	330.8	272.2	413.7	349.3
85°	101.5	85.9	82.0	80.0	74.2	150.3	260.5	177.5	277.1	123.9	114.1
87.5°	30.3	34.1	30.3	22.5	16.6	16.6	26.3	9.8	6.8	4.9	4.9
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)