

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: P652239

Luminaire Tested: **GALN-SA2B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8071.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

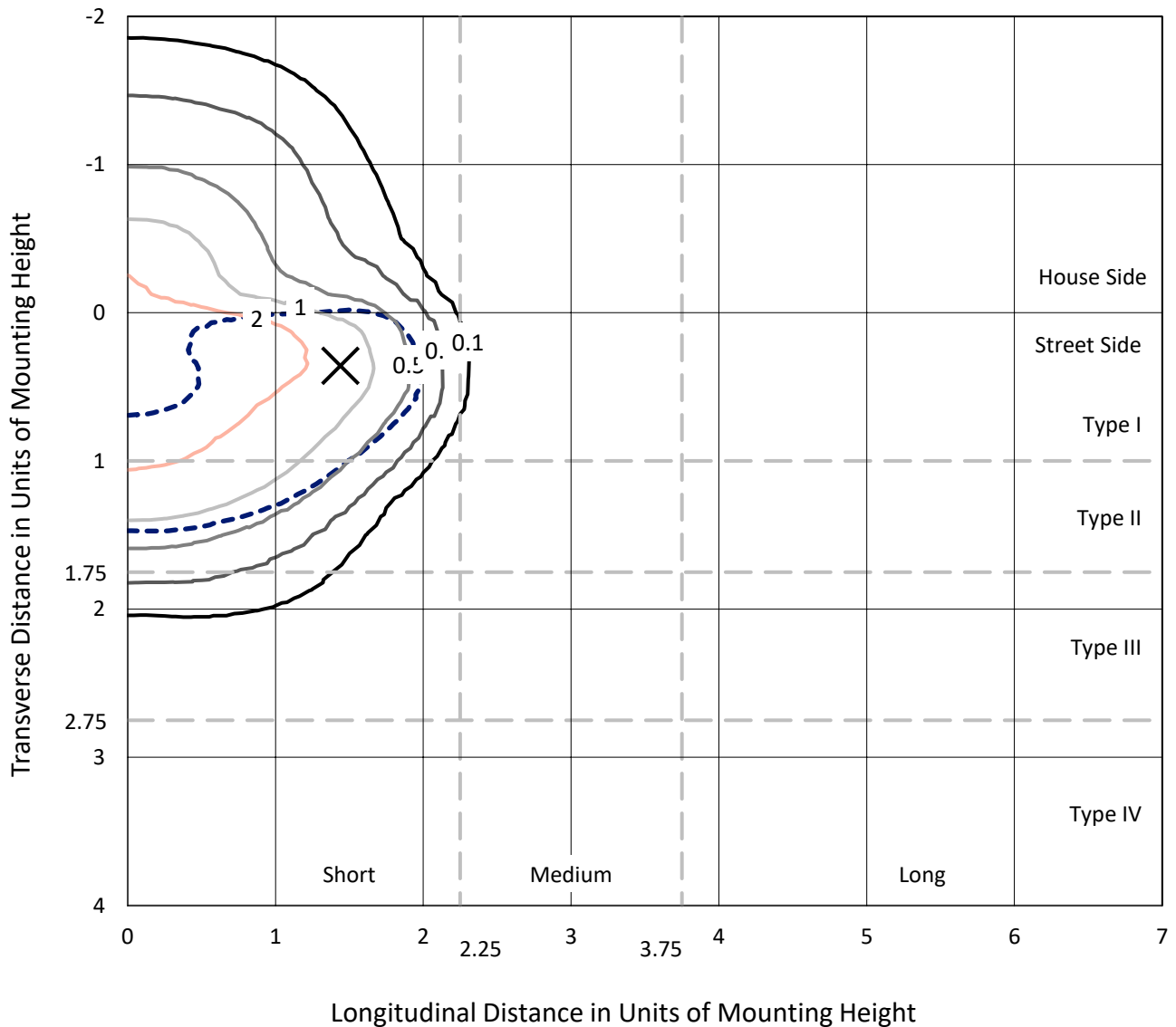
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

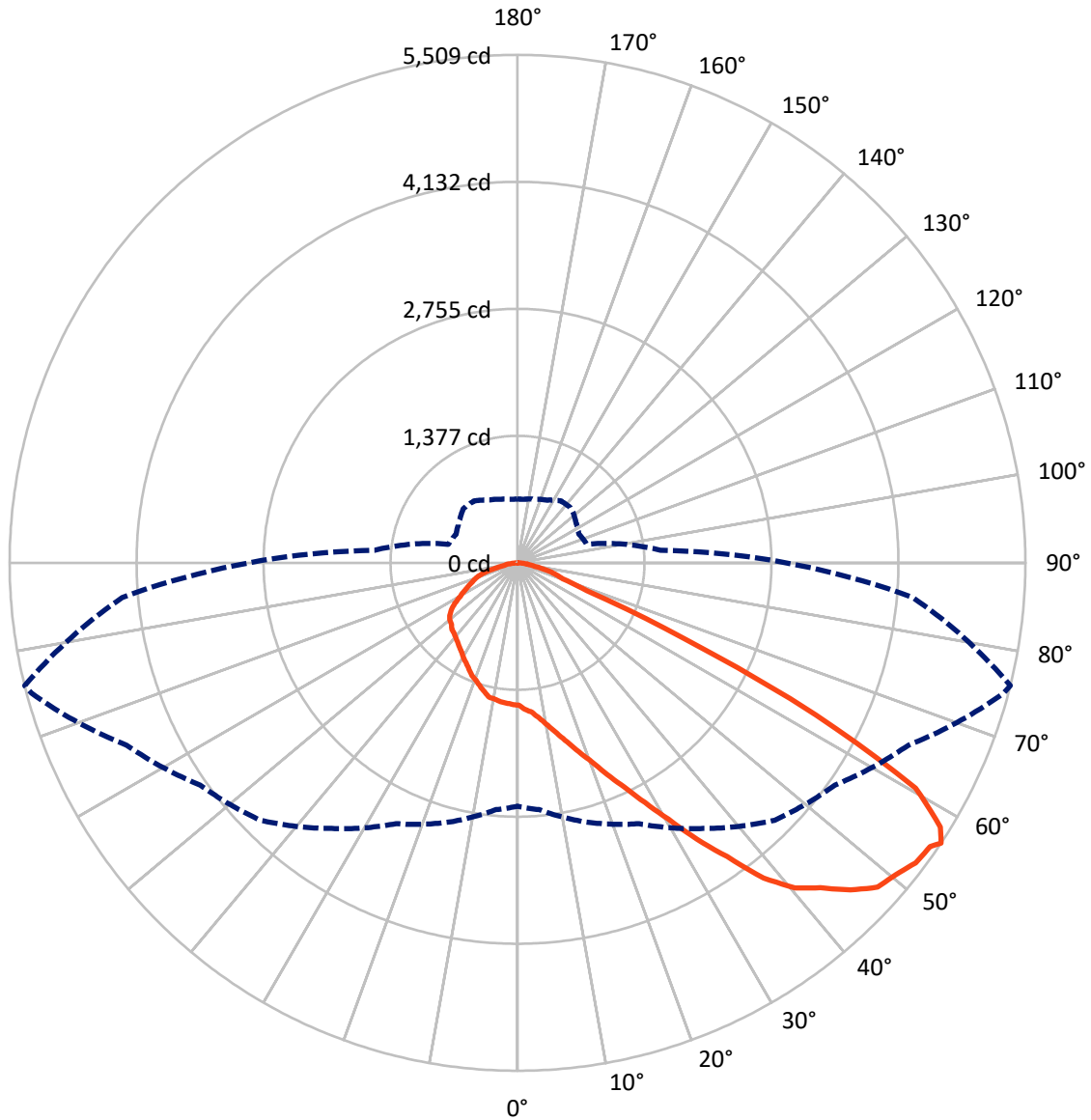
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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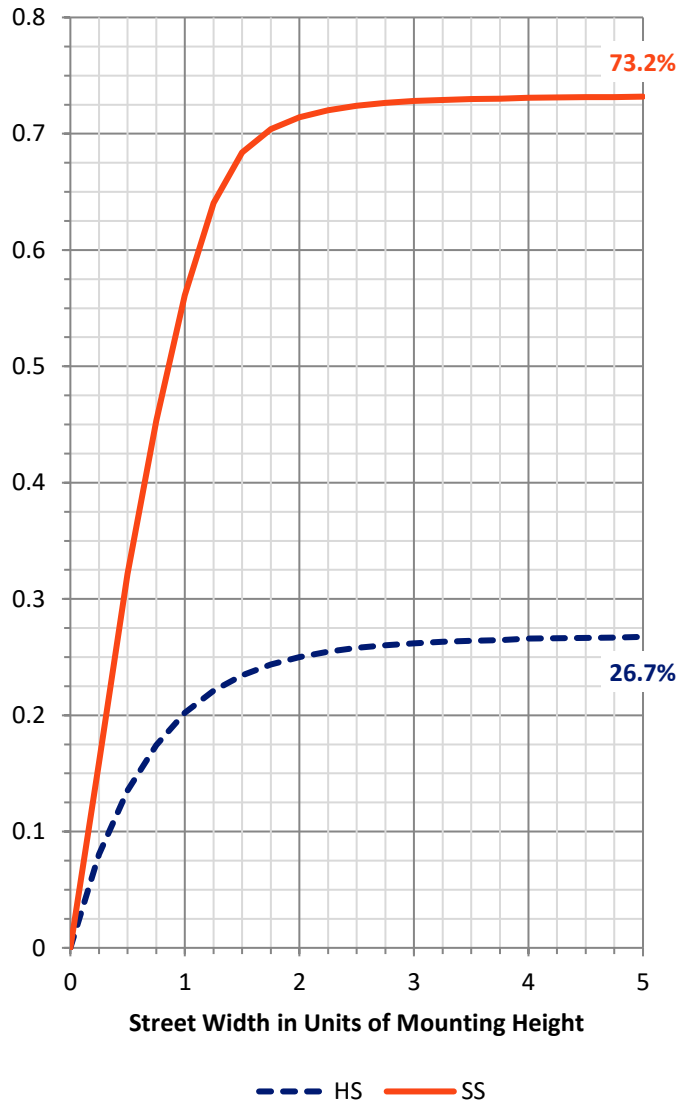
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.3	0.0	2170.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5901.6	0.0	5901.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	8071.9	0.0	8071.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.9
10°-20°	481.1	6.0
20°-30°	841.4	10.4
30°-40°	1317.5	16.3
40°-50°	1916.5	23.7
50°-60°	2106.4	26.1
60°-70°	940.2	11.6
70°-80°	271.6	3.4
80°-90°	44.0	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°	8071.9	100.0
0°-180°	8071.9	100.0

Coefficient of Utilization



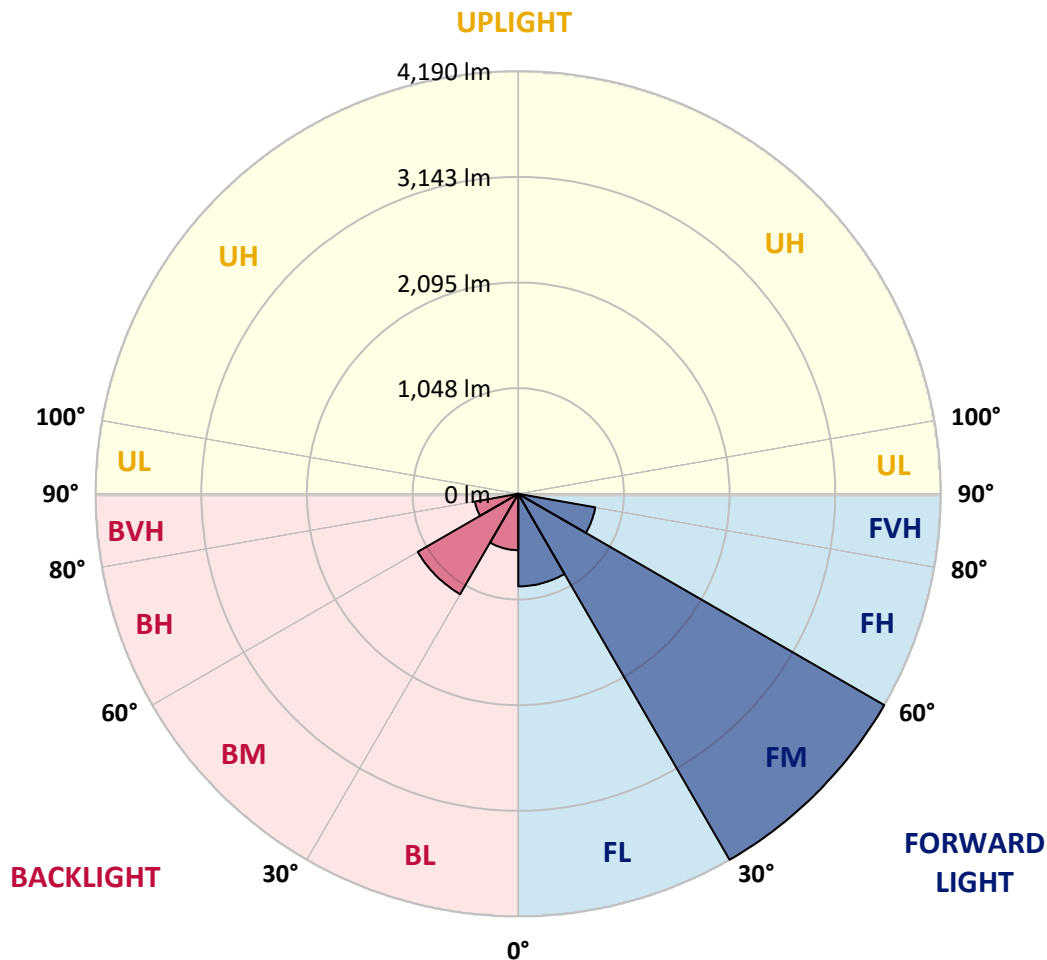
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.3	11.4			
FM (30°-60°)	4190.3	51.9			
FH (60°-80°)	775.1	9.6			G1/1800
FVH (80°-90°)	19.0	0.2			G1/100
BL (0°-30°)	558.5	6.9	B2/1000		
BM (30°-60°)	1150.1	14.2	B2/2500		
BH (60°-80°)	436.7	5.4	B1/500		G1/500
BVH (80°-90°)	25.1	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1701.4	1674.2	1672.1	1664.8	1669.0	1650.1	1630.3	1604.1	1576.9	1593.6	1553.9
5°	1820.7	1784.1	1798.7	1773.6	1776.8	1751.6	1710.8	1680.5	1647.0	1627.1	1598.9
7.5°	1862.6	1865.7	1876.2	1872.0	1851.0	1851.0	1823.9	1770.5	1711.9	1700.3	1653.3
10°	1919.1	1920.1	1908.6	1911.8	1941.0	1927.4	1903.4	1880.3	1805.0	1791.4	1707.7
12.5°	1938.9	1920.1	1938.9	1955.7	1990.2	2009.1	2003.9	1987.1	1906.5	1897.1	1774.7
15°	1942.1	1930.6	1946.2	1983.9	2014.3	2093.8	2133.5	2122.1	2015.3	2016.4	1850.0
17.5°	1927.4	1943.1	1949.4	1981.8	2052.0	2126.2	2241.3	2257.1	2169.1	2155.6	1945.2
20°	1947.3	1935.8	1944.1	1973.5	2066.6	2182.7	2333.4	2437.0	2313.5	2304.2	2043.5
22.5°	2023.7	2008.0	2006.0	2024.7	2091.7	2212.1	2430.7	2617.0	2489.4	2494.6	2166.0
25°	2083.3	2091.7	2084.4	2083.3	2125.2	2256.0	2559.4	2831.5	2728.0	2697.6	2310.4
27.5°	2185.9	2205.8	2191.1	2211.0	2201.6	2321.9	2651.5	3069.1	2985.3	2944.5	2441.2
30°	2328.2	2338.7	2325.0	2325.0	2296.8	2414.0	2735.3	3317.0	3282.5	3227.0	2595.0
32.5°	2515.5	2531.2	2504.0	2488.3	2484.1	2551.1	2885.9	3561.9	3620.5	3573.4	2799.1
35°	2763.5	2754.1	2721.6	2707.0	2650.5	2761.4	3109.8	3843.4	3997.2	3913.4	3046.0
37.5°	2982.2	2967.6	2965.5	2883.8	2897.4	2988.5	3300.3	4056.8	4362.4	4338.3	3306.6
40°	3186.2	3199.8	3221.8	3175.8	3154.8	3255.3	3522.1	4220.1	4645.9	4636.5	3507.5
42.5°	3405.0	3392.3	3431.1	3392.3	3361.0	3503.3	3762.8	4333.1	4895.0	4817.5	3717.8
45°	3722.0	3682.2	3695.8	3699.0	3675.9	3728.2	3862.2	4414.7	5069.7	5061.3	3871.6
47.5°	3986.7	3987.8	3964.7	3947.0	3876.8	3929.2	3973.1	4466.0	5270.6	5257.0	3931.3
50°	4085.1	4071.4	4138.5	4177.2	4181.4	4074.6	4059.9	4494.2	5376.3	5316.6	3990.9
52.5°	3731.4	3744.0	3849.6	4079.9	4212.7	4224.3	4161.4	4552.8	5419.2	5406.6	4039.1
55°	3003.1	3063.8	3237.5	3503.3	3818.2	4164.6	4271.4	4613.5	5442.2	5431.8	4252.5
56°	2640.0	2687.1	2913.1	3121.4	3516.9	3948.0	4202.2	4678.4	5460.0	5509.2	4302.7
57.5°	2125.2	2179.6	2341.8	2578.3	3045.0	3535.7	4011.8	4598.8	5391.0	5409.8	4339.3
60°	1328.9	1334.2	1528.8	1684.7	2013.3	2492.5	3061.7	4001.4	4989.1	4961.9	3897.8
62.5°	871.6	872.7	1049.5	1177.1	1326.8	1436.7	1801.8	2653.6	3681.1	3633.0	2775.0
65°	612.2	625.7	762.8	933.3	994.1	936.5	925.0	1399.0	2056.2	1987.1	1491.1
67.5°	447.8	448.9	570.3	753.4	841.3	712.6	578.6	683.3	814.1	812.0	690.6
70°	296.1	308.6	401.8	563.0	663.4	572.4	473.0	488.6	518.0	518.0	513.8
72.5°	172.7	184.2	245.9	356.8	372.5	357.8	374.6	418.6	437.4	436.3	431.1
75°	98.4	103.6	117.2	148.6	185.2	218.7	275.2	317.1	335.9	347.4	333.8
77.5°	57.5	60.7	69.0	84.8	96.3	118.2	149.6	179.0	204.0	200.9	203.0
80°	30.4	30.4	38.7	50.2	66.9	83.7	99.4	116.1	129.8	132.9	136.0
82.5°	17.8	18.8	25.1	36.6	48.1	59.6	76.4	87.9	100.4	101.5	103.6
85°	9.4	10.4	15.7	24.1	32.5	36.6	37.7	35.6	38.7	36.6	41.9
87.5°	3.1	3.1	5.2	4.2	4.2	5.2	6.3	6.3	8.4	8.4	8.4
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°	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1552.8	1552.8	1535.1	1501.5	1496.3	1482.7	1470.2	1469.1	1459.7	1451.3	1447.1
5°	1582.1	1549.7	1523.6	1493.2	1457.6	1440.9	1422.0	1401.1	1392.7	1401.1	1400.1
7.5°	1615.6	1588.4	1509.9	1453.4	1412.6	1395.9	1375.0	1353.0	1355.1	1355.1	1340.4
10°	1648.0	1611.4	1485.9	1413.6	1354.0	1341.5	1330.0	1338.3	1348.8	1350.9	1341.5
12.5°	1702.4	1619.8	1474.4	1373.9	1336.3	1309.0	1316.3	1339.4	1361.3	1355.1	1362.4
15°	1743.3	1627.1	1422.0	1333.1	1286.0	1298.6	1324.7	1340.4	1377.1	1372.8	1380.2
17.5°	1783.0	1631.3	1370.7	1278.7	1258.8	1293.3	1313.2	1358.2	1369.7	1394.8	1404.2
20°	1864.7	1639.7	1318.4	1245.2	1238.9	1278.7	1313.2	1334.2	1359.2	1381.3	1381.3
22.5°	1906.5	1635.5	1283.9	1201.3	1221.1	1246.3	1277.6	1313.2	1313.2	1334.2	1335.2
25°	1958.9	1618.8	1229.5	1180.3	1195.0	1219.0	1254.6	1242.1	1255.7	1255.7	1272.4
27.5°	2018.5	1583.2	1182.4	1142.7	1171.9	1198.1	1203.3	1195.0	1179.3	1177.1	1170.9
30°	2066.6	1539.2	1147.9	1130.1	1154.2	1168.8	1152.1	1134.3	1107.1	1105.0	1090.4
32.5°	2132.5	1484.8	1105.0	1098.7	1125.9	1126.9	1121.7	1094.5	1054.8	1038.0	1021.2
35°	2243.5	1453.4	1072.5	1081.9	1090.4	1087.2	1077.7	1048.5	1008.7	1001.4	995.1
37.5°	2325.0	1430.4	1039.1	1050.6	1057.9	1062.1	1033.8	1001.4	1002.5	987.8	983.6
40°	2417.1	1415.7	1011.9	1017.1	1018.1	1031.7	997.2	981.5	988.8	979.4	985.7
42.5°	2535.4	1419.9	983.6	979.4	999.3	994.1	977.3	956.4	960.6	932.3	936.5
45°	2598.2	1448.2	966.9	948.1	970.0	968.9	947.0	927.1	902.0	847.6	849.7
47.5°	2640.0	1455.5	927.1	914.5	937.5	951.2	926.0	880.0	844.4	805.7	796.3
50°	2683.0	1469.1	908.3	882.1	891.5	923.9	892.6	848.7	814.1	779.5	784.8
52.5°	2720.6	1495.3	871.6	832.9	849.7	885.2	868.5	815.1	777.4	749.2	740.8
55°	2888.0	1553.9	809.9	759.7	799.5	844.4	835.0	770.1	729.3	714.7	712.6
56°	2914.1	1555.9	777.4	734.5	771.2	830.8	819.3	750.3	713.7	690.6	691.6
57.5°	2918.4	1530.9	731.4	711.6	742.9	811.0	796.3	734.5	684.3	663.4	657.2
60°	2567.8	1195.0	673.9	661.3	697.9	750.3	745.0	691.6	635.1	611.1	622.6
62.5°	1750.6	875.8	628.9	626.8	645.6	696.9	683.3	635.1	588.0	572.4	565.1
65°	1019.2	664.5	584.9	576.6	592.2	619.5	628.9	578.6	529.5	519.0	515.9
67.5°	601.7	549.3	528.4	514.9	509.6	526.3	533.6	504.3	455.1	440.5	453.0
70°	503.3	488.6	489.7	466.7	454.1	442.6	436.3	410.2	369.4	350.5	345.3
72.5°	434.2	428.0	423.8	402.8	391.3	365.2	338.0	311.8	281.5	265.8	266.8
75°	331.7	329.6	331.7	321.3	301.3	280.4	255.3	221.9	198.8	179.0	183.1
77.5°	197.8	204.0	207.2	203.0	194.6	175.8	160.1	138.1	116.1	100.4	98.4
80°	136.0	141.3	146.5	141.3	132.9	119.3	102.5	85.8	70.1	61.7	59.6
82.5°	103.6	108.8	111.9	106.7	96.3	81.6	70.1	58.6	46.0	37.7	35.6
85°	37.7	42.9	41.9	50.2	54.4	52.3	45.0	34.6	26.2	18.8	17.8
87.5°	10.4	9.4	10.4	10.4	10.4	9.4	8.4	8.4	8.4	5.2	4.2
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)