

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: P652238

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.7 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

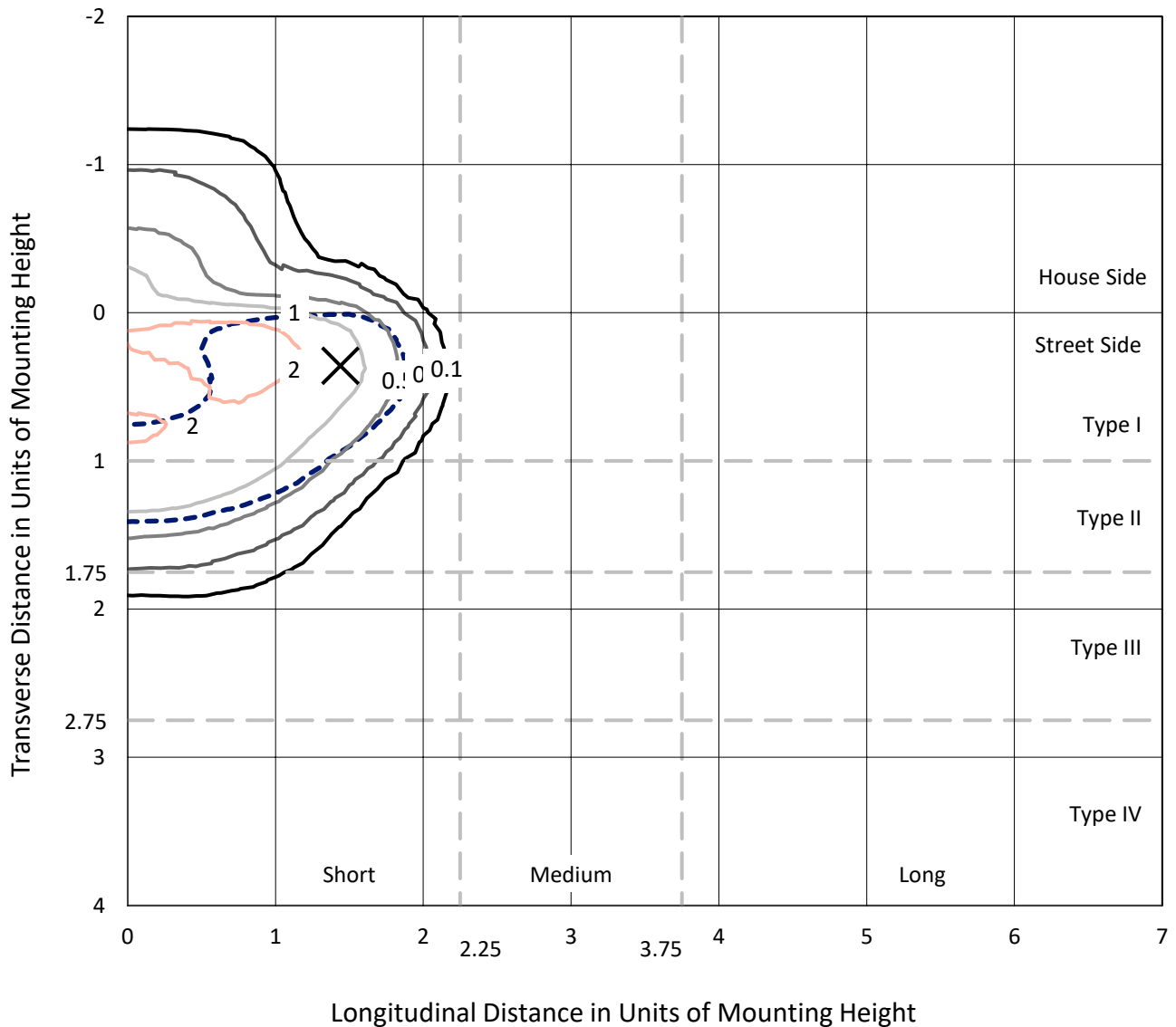
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

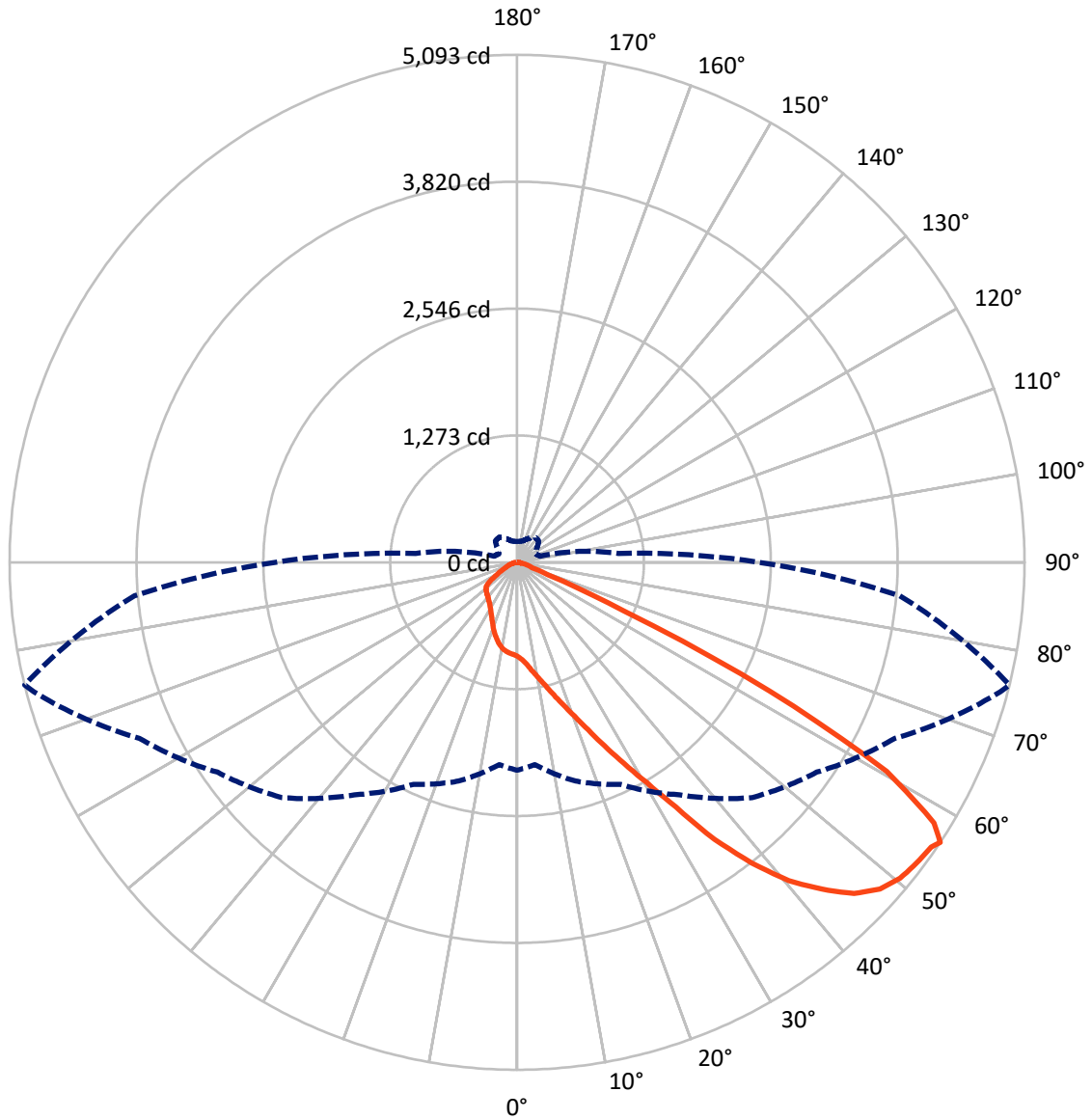
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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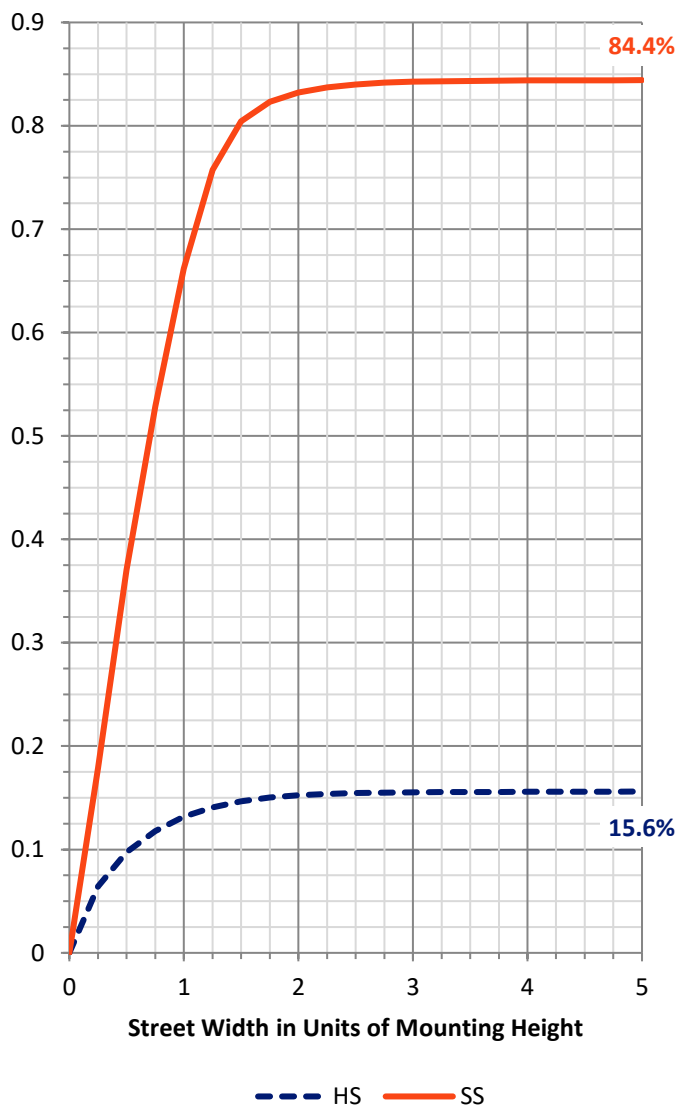
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	891.8	0.0	891.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4785.0	0.0	4785.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	5676.7	0.0	5676.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.7
10°-20°	305.8	5.4
20°-30°	554.5	9.8
30°-40°	956.3	16.8
40°-50°	1553.5	27.4
50°-60°	1637.4	28.8
60°-70°	500.3	8.8
70°-80°	64.1	1.1
80°-90°	9.7	0.2
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°	5676.7	100.0
0°-180°	5676.7	100.0

Coefficient of Utilization

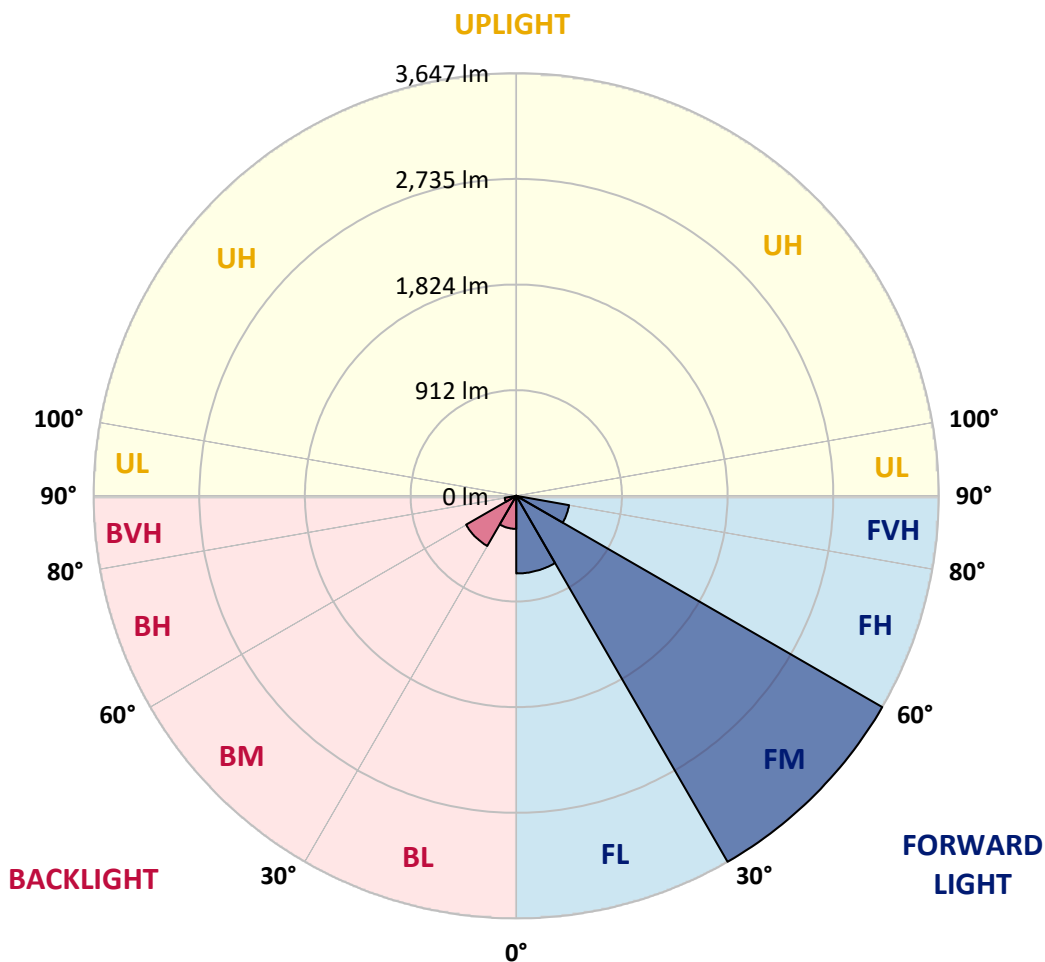


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.2	11.8			
FM (30°-60°)	3647.3	64.2			
FH (60°-80°)	462.7	8.2			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	285.3	5.0	B1/500		
BM (30°-60°)	499.8	8.8	B1/1000		
BH (60°-80°)	101.7	1.8	B0/110		G0/110
BVH (80°-90°)	5.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	1088.3	1063.1	1064.2	1062.1	1059.0	1047.5	1012.9	1007.7	984.6	978.4	957.5
5°	1219.0	1197.1	1209.6	1190.8	1173.0	1162.5	1106.1	1079.9	1043.3	1029.6	1000.4
7.5°	1300.7	1290.2	1286.1	1287.1	1270.3	1244.2	1219.0	1161.5	1112.3	1101.9	1040.1
10°	1340.5	1334.2	1340.5	1337.3	1344.6	1347.8	1303.8	1269.3	1197.1	1179.3	1083.0
12.5°	1349.9	1362.4	1367.6	1381.3	1399.0	1429.4	1426.3	1379.2	1282.9	1271.4	1149.0
15°	1372.8	1383.4	1378.1	1400.1	1433.6	1484.9	1512.0	1504.7	1401.1	1380.2	1225.3
17.5°	1393.8	1375.0	1392.8	1436.7	1470.2	1548.7	1614.6	1644.9	1529.9	1505.8	1295.5
20°	1422.0	1416.8	1413.7	1435.7	1495.3	1599.9	1730.8	1786.2	1674.3	1649.1	1395.9
22.5°	1507.8	1508.9	1506.8	1474.4	1517.2	1635.5	1832.3	1969.4	1846.9	1826.0	1509.9
25°	1620.9	1607.3	1596.8	1570.7	1565.4	1668.0	1934.8	2193.2	2054.1	2039.4	1633.5
27.5°	1740.2	1740.2	1708.7	1684.7	1651.2	1748.5	2029.0	2410.9	2304.2	2284.3	1741.2
30°	1870.0	1877.3	1873.1	1821.8	1800.8	1836.4	2125.2	2689.3	2590.9	2565.8	1919.1
32.5°	2061.5	2045.7	2063.5	2020.6	1958.9	1990.2	2277.0	2938.3	2963.4	2927.9	2152.5
35°	2314.7	2305.3	2293.7	2223.6	2150.4	2175.5	2491.5	3244.9	3431.2	3413.4	2387.9
37.5°	2541.8	2536.5	2527.0	2478.9	2394.2	2424.5	2735.3	3564.1	3887.4	3828.8	2720.6
40°	2780.3	2808.5	2778.2	2735.3	2657.9	2724.8	3022.0	3753.5	4271.4	4200.3	2975.0
42.5°	3103.6	3081.7	3095.3	3016.8	2975.0	3048.2	3309.8	3942.9	4569.7	4484.9	3244.9
45°	3447.9	3448.9	3412.4	3387.2	3278.4	3357.9	3486.6	4047.5	4807.2	4741.2	3448.9
47.5°	3668.7	3667.7	3707.4	3747.2	3635.2	3556.8	3607.0	4146.9	4929.6	4899.2	3523.3
50°	3634.1	3644.6	3695.9	3844.5	3903.1	3797.4	3720.0	4117.6	4985.1	4981.9	3587.1
52.5°	3161.2	3195.7	3281.5	3496.0	3791.1	3921.9	3838.2	4172.0	5012.3	5017.5	3682.3
55°	2406.7	2425.5	2588.8	2849.4	3175.9	3623.7	3791.1	4214.9	5033.2	5042.6	3797.4
56°	2087.6	2037.3	2272.8	2458.0	2848.3	3338.0	3671.8	4181.5	5020.7	5092.8	3855.0
57.5°	1575.9	1542.4	1732.9	1964.1	2339.7	2856.7	3301.4	4023.4	4935.9	4934.8	3772.3
60°	958.5	925.0	1071.5	1207.6	1417.8	1759.0	2230.9	3204.1	4173.0	4260.9	3054.4
62.5°	570.3	591.2	735.6	818.3	886.3	921.9	1154.2	1904.4	2784.5	2847.3	1895.0
65°	379.9	387.2	496.0	632.0	662.4	527.4	469.9	771.2	1207.6	1168.8	781.6
67.5°	234.4	251.1	332.8	475.1	526.4	385.1	222.9	287.8	332.8	332.8	226.1
70°	142.3	150.7	221.9	323.4	361.0	248.0	162.2	162.2	160.1	156.9	135.0
72.5°	68.0	73.3	113.0	166.3	169.5	130.8	125.6	137.1	134.0	132.9	111.9
75°	29.3	31.4	39.8	52.3	59.6	55.4	76.4	98.4	101.5	98.4	80.6
77.5°	9.4	10.4	14.6	18.8	19.8	24.1	32.5	40.8	47.1	44.0	39.8
80°	1.0	2.1	4.2	9.4	14.6	18.8	24.1	27.2	30.4	30.4	28.3
82.5°	1.0	1.0	4.2	8.4	13.6	17.8	23.0	26.2	30.4	31.4	29.3
85°	0.0	1.0	3.1	7.3	11.5	11.5	10.4	10.4	7.3	7.3	7.3
87.5°	0.0	0.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	953.3	951.2	922.9	905.2	895.7	876.9	865.4	857.0	850.8	843.4	844.4
5°	965.8	958.5	911.4	879.0	840.2	819.3	801.6	786.9	777.5	775.4	771.2
7.5°	1001.4	962.7	891.5	832.9	783.7	762.9	747.1	737.7	741.9	732.5	739.8
10°	1028.6	971.1	867.5	782.7	733.5	717.8	709.5	716.8	727.2	723.1	717.8
12.5°	1062.1	979.4	828.7	734.6	688.5	677.0	691.6	705.3	726.2	734.6	724.1
15°	1099.8	988.8	779.6	679.1	649.8	659.3	684.3	708.4	729.3	739.8	746.1
17.5°	1145.8	985.7	731.4	635.2	613.2	640.4	670.8	692.7	724.1	739.8	735.6
20°	1188.8	975.2	678.1	591.2	592.2	617.4	642.5	678.1	694.8	715.8	708.4
22.5°	1229.5	956.4	622.6	560.9	560.9	599.5	612.2	635.2	649.8	660.3	659.3
25°	1287.1	920.8	576.6	531.6	544.1	569.3	579.7	587.0	580.8	589.1	590.2
27.5°	1327.9	884.2	538.9	505.4	528.4	547.2	544.1	539.9	525.3	513.8	521.1
30°	1371.8	841.3	506.5	487.6	500.1	517.0	504.3	491.8	468.8	449.9	451.0
32.5°	1434.7	821.4	478.2	466.7	483.4	485.5	472.0	453.1	430.1	412.3	411.2
35°	1551.8	808.9	454.1	453.1	456.2	457.3	443.7	420.7	411.2	396.6	401.8
37.5°	1669.0	802.6	437.4	433.2	432.2	433.2	417.6	395.5	413.4	412.3	414.4
40°	1818.7	830.8	413.4	408.1	409.1	409.1	389.3	383.0	414.4	417.6	418.6
42.5°	1970.4	866.4	397.6	380.9	385.1	385.1	374.6	367.3	389.3	368.4	365.2
45°	2102.2	918.7	380.9	353.7	364.2	369.4	366.3	353.7	340.1	304.5	304.5
47.5°	2145.1	964.8	361.0	327.5	335.9	358.9	349.5	323.4	299.3	270.0	267.9
50°	2220.5	1015.0	345.3	297.2	315.0	343.2	333.8	307.6	280.5	259.5	260.5
52.5°	2297.9	1072.5	316.0	261.6	283.6	330.7	330.7	301.3	259.5	244.9	242.8
55°	2414.1	1070.5	263.7	214.5	253.2	311.8	317.1	270.0	232.3	220.8	220.8
56°	2430.8	1022.3	237.5	200.9	239.6	306.6	307.6	261.6	221.9	209.2	209.2
57.5°	2305.3	922.9	208.2	184.2	222.9	297.2	298.2	254.3	213.4	195.7	193.6
60°	1773.7	624.7	173.7	164.2	201.9	267.9	273.1	231.3	187.3	173.7	172.7
62.5°	1001.4	346.3	152.8	148.6	173.7	228.1	243.8	201.9	159.0	151.7	153.8
65°	457.3	190.5	128.7	120.3	140.2	175.8	196.7	166.3	130.8	122.4	122.4
67.5°	167.4	129.8	109.8	95.2	98.4	114.0	127.7	107.8	86.9	74.3	77.5
70°	119.3	108.8	96.3	82.7	76.4	74.3	73.3	60.7	42.9	33.5	35.6
72.5°	96.3	90.0	80.6	70.1	59.6	50.2	42.9	31.4	19.8	13.6	12.5
75°	69.0	65.9	58.6	50.2	41.9	35.6	29.3	19.8	10.4	5.2	5.2
77.5°	35.6	35.6	34.6	31.4	26.2	20.9	16.7	11.5	6.3	2.1	2.1
80°	27.2	29.3	30.4	27.2	24.1	18.8	13.6	8.4	4.2	1.0	1.0
82.5°	26.2	30.4	32.5	28.3	24.1	17.8	13.6	8.4	4.2	1.0	1.0
85°	6.3	6.3	9.4	10.4	13.6	14.6	11.5	7.3	3.1	1.0	1.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	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)