

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: P651750

Luminaire Tested: **GALN-SA2A-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7778.4 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

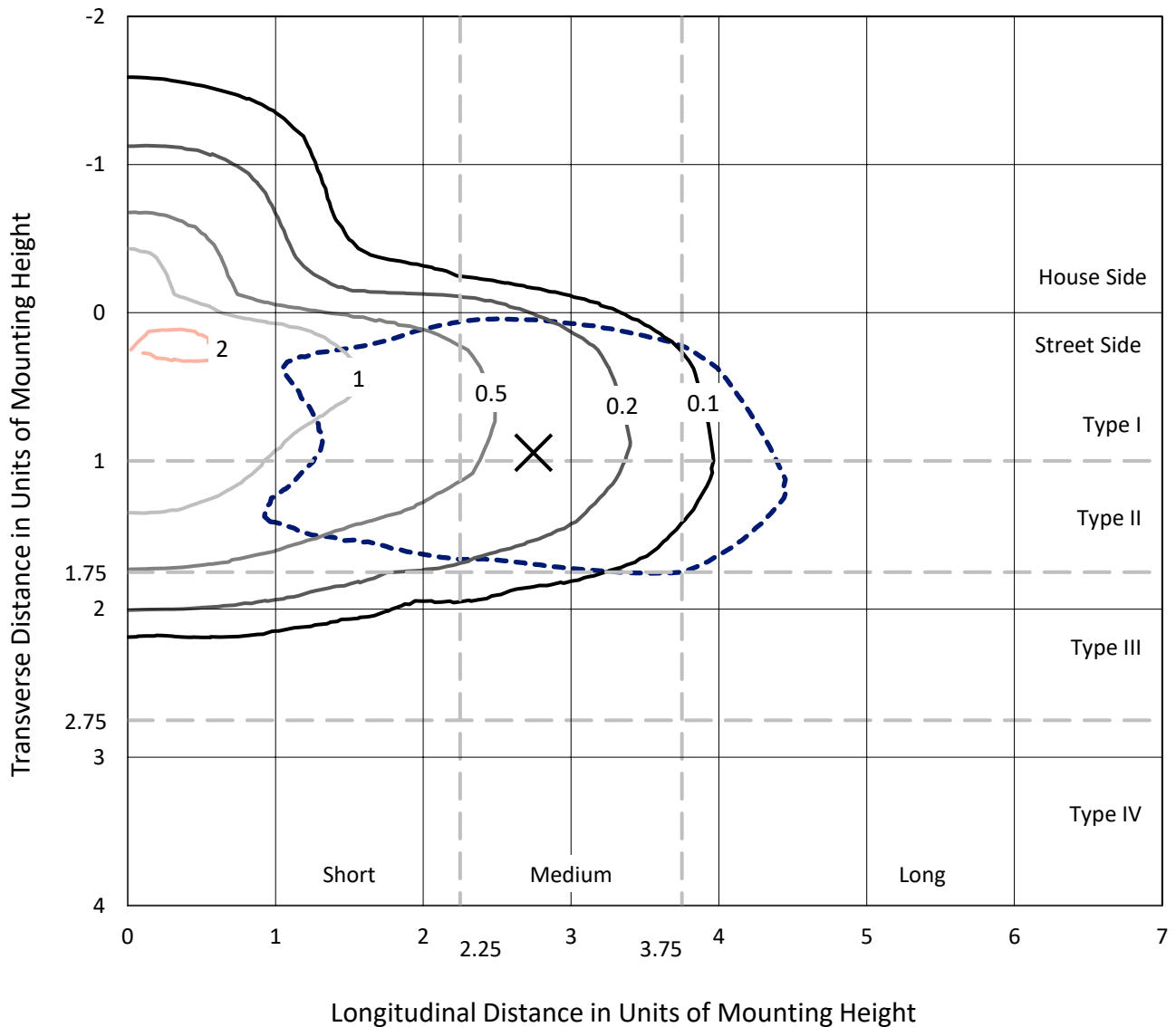
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651750
 CATALOG NUMBER: GALN-SA2A-840-U-T2

Iso-Footcandle Lines of Horizontal Illumination

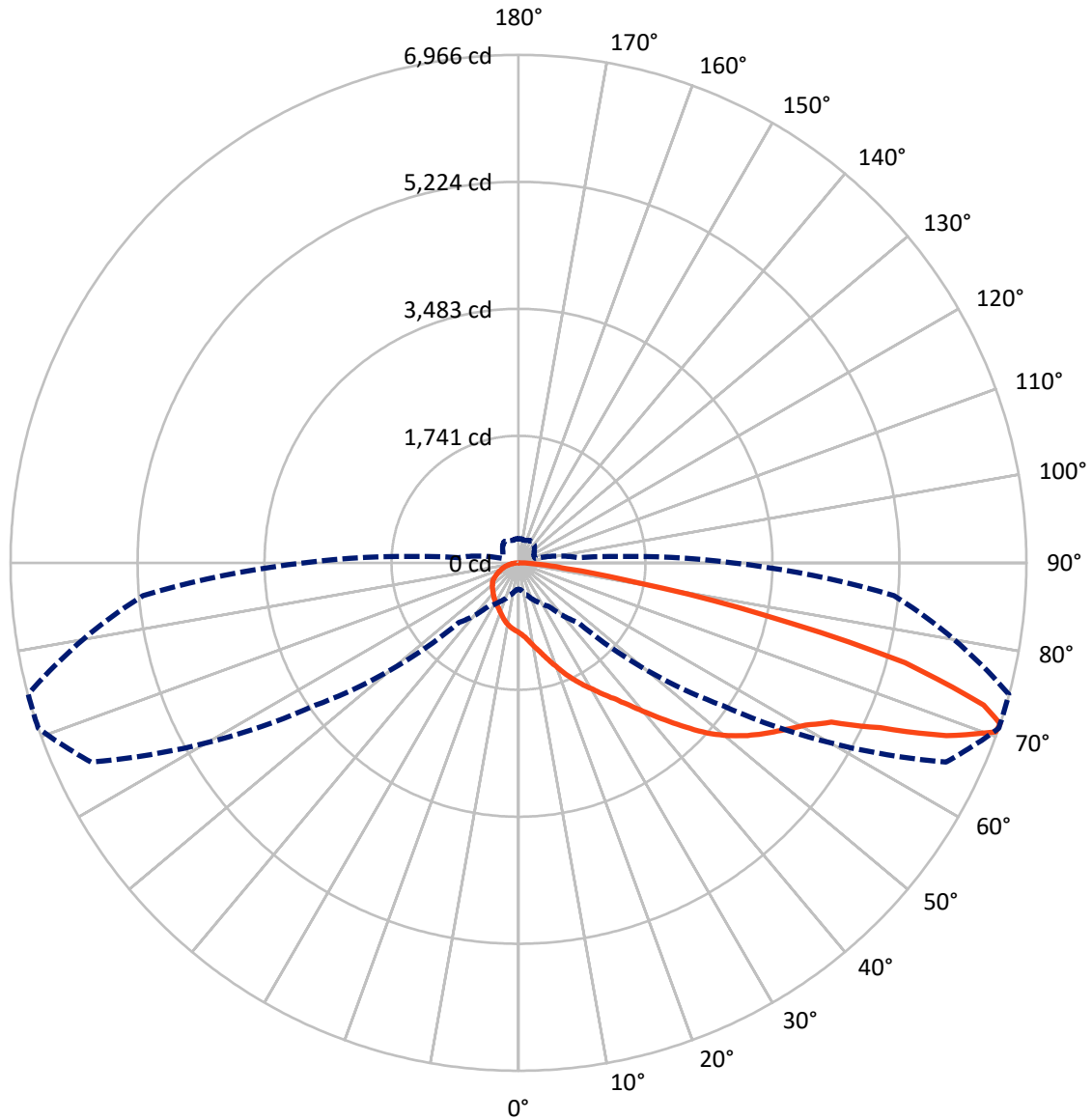
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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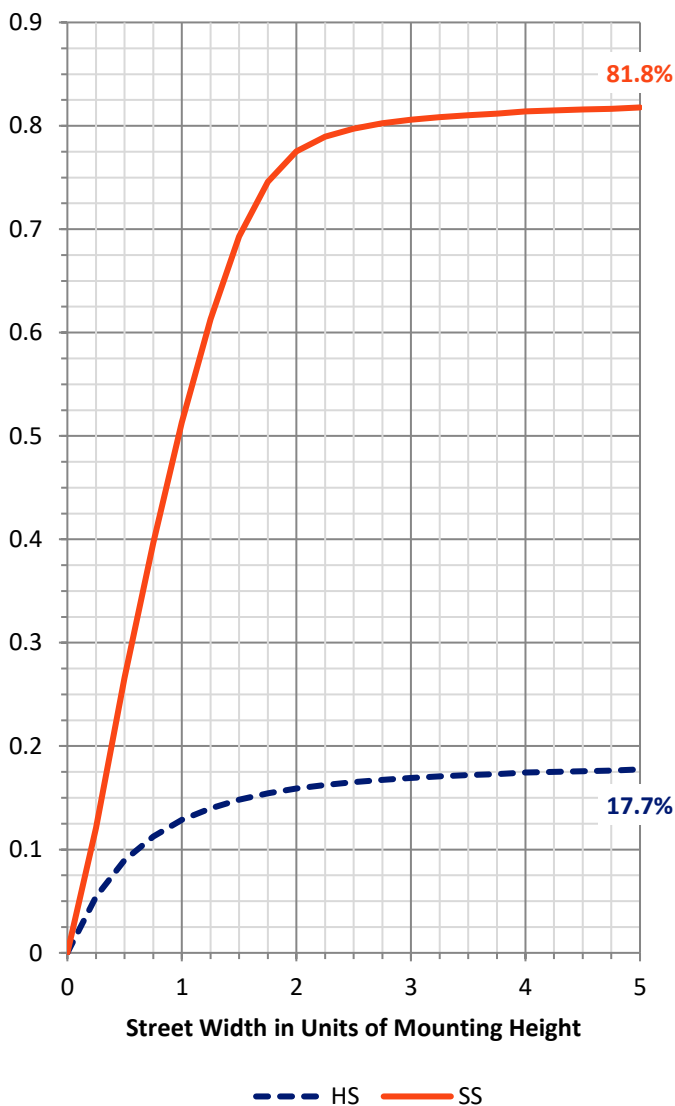
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.9	0.0	1398.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	6379.5	0.0	6379.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	7778.4	0.0	7778.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	1.2
10°-20°	311.4	4.0
20°-30°	544.2	7.0
30°-40°	809.5	10.4
40°-50°	1192.7	15.3
50°-60°	1669.7	21.5
60°-70°	1867.5	24.0
70°-80°	1140.8	14.7
80°-90°	146.7	1.9
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°	7778.4	100.0
0°-180°	7778.4	100.0

Coefficient of Utilization

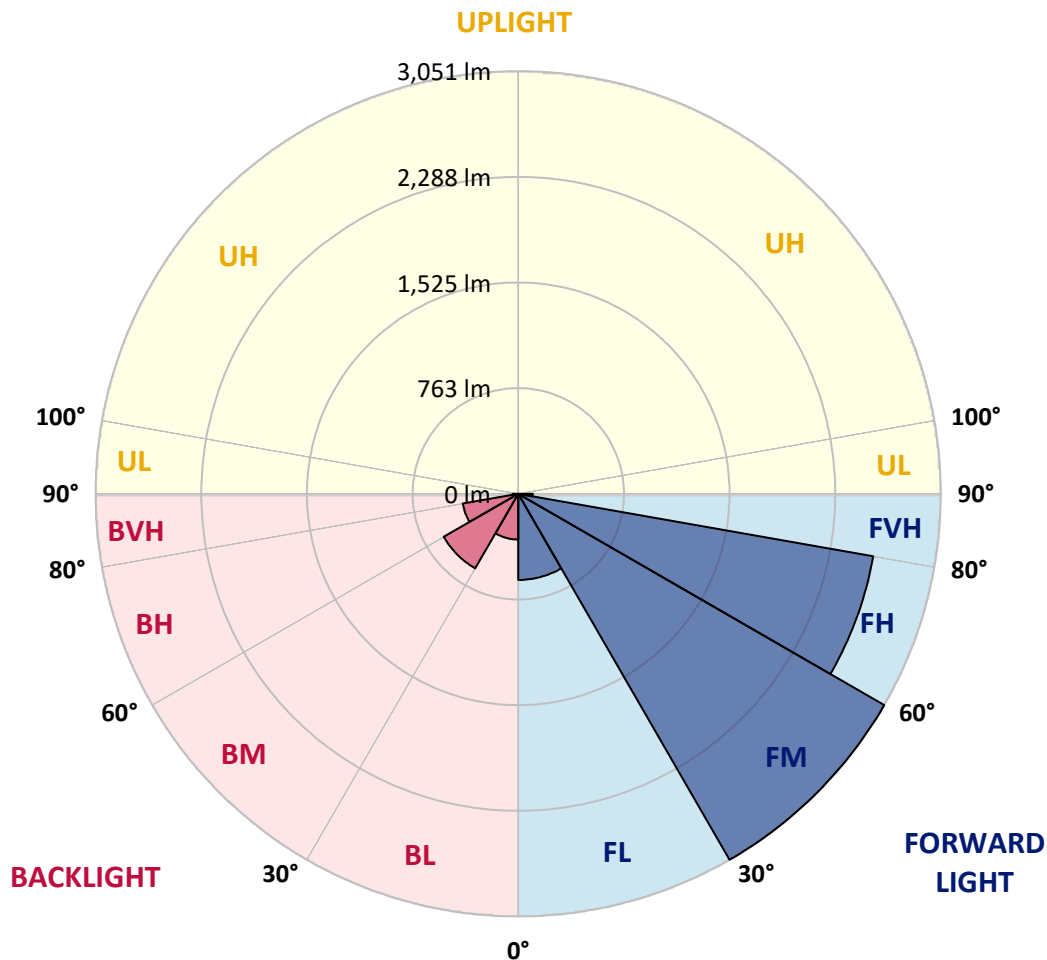


REPORT NUMBER: P651750
 CATALOG NUMBER: GALN-SA2A-840-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.5	8.0			
FM (30°-60°)	3050.5	39.2			
FH (60°-80°)	2601.9	33.4			G2/5000
FVH (80°-90°)	105.6	1.4			G2/225
BL (0°-30°)	330.0	4.2	B1/500		
BM (30°-60°)	621.3	8.0	B1/1000		
BH (60°-80°)	406.5	5.2	B1/500		G1/500
BVH (80°-90°)	41.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	1059.8	1054.7	1055.1	1047.9	1038.5	1028.2	1013.7	1000.8	990.5	984.6	967.1
5°	1174.4	1169.2	1162.9	1147.0	1140.2	1115.0	1082.9	1053.9	1031.6	1019.2	984.1
7.5°	1267.1	1265.9	1264.2	1255.2	1237.7	1202.6	1175.2	1124.8	1091.9	1068.4	1008.5
10°	1324.4	1326.6	1327.9	1329.6	1322.3	1303.9	1266.3	1202.6	1160.7	1130.8	1040.1
12.5°	1353.5	1355.7	1362.9	1378.7	1388.6	1386.5	1355.7	1293.2	1235.5	1196.2	1074.0
15°	1371.5	1374.9	1387.7	1408.7	1441.6	1462.5	1447.6	1389.8	1326.6	1280.0	1114.1
17.5°	1391.2	1395.0	1409.1	1439.0	1482.2	1527.5	1543.7	1494.2	1425.3	1369.7	1159.0
20°	1402.3	1407.4	1427.5	1466.8	1517.2	1583.1	1636.9	1610.9	1535.7	1474.1	1210.7
22.5°	1420.2	1424.5	1441.6	1483.5	1543.7	1626.2	1730.2	1724.6	1658.4	1578.8	1267.6
25°	1469.0	1475.8	1484.4	1509.6	1567.7	1670.3	1807.6	1846.0	1777.2	1688.3	1319.8
27.5°	1560.9	1566.4	1566.0	1569.4	1602.4	1708.3	1874.7	1966.2	1895.2	1799.0	1370.2
30°	1665.6	1667.8	1669.5	1661.7	1669.0	1747.3	1936.2	2085.0	2014.0	1912.7	1414.2
32.5°	1793.0	1797.3	1782.8	1763.1	1757.1	1805.0	1987.1	2203.8	2154.7	2028.2	1457.9
35°	1943.5	1954.6	1925.1	1890.5	1866.1	1887.9	2055.5	2325.3	2298.8	2175.7	1515.6
37.5°	2115.4	2129.1	2101.7	2033.7	1999.1	2005.0	2144.9	2475.3	2480.9	2343.6	1601.5
40°	2256.0	2274.0	2274.8	2178.6	2126.0	2132.9	2258.2	2637.0	2700.6	2551.4	1702.8
42.5°	2348.7	2366.3	2384.7	2328.2	2273.1	2312.0	2390.3	2812.2	2947.7	2803.6	1844.3
45°	2450.5	2466.3	2476.6	2450.9	2420.1	2521.1	2549.7	2998.6	3211.1	3085.4	1999.1
47.5°	2568.5	2586.1	2595.9	2571.5	2560.0	2704.5	2721.6	3172.6	3492.4	3359.0	2170.1
50°	2725.8	2739.1	2734.0	2718.6	2716.0	2845.1	2886.6	3335.5	3724.5	3653.6	2347.5
52.5°	2921.6	2937.4	2943.0	2921.2	2911.4	2945.6	3019.5	3483.8	3935.7	3906.6	2536.9
55°	3040.0	3065.3	3150.0	3184.1	3207.7	3075.5	3162.7	3647.6	4125.1	4173.5	2740.4
57.5°	2888.3	2920.8	3110.2	3281.2	3502.3	3400.5	3365.9	3818.6	4314.5	4432.1	2984.0
60°	2518.0	2525.4	2769.5	3084.5	3529.2	3818.1	3789.5	4090.5	4519.7	4692.9	3305.1
62.5°	1746.8	1762.2	2050.8	2553.5	3196.6	3968.7	4510.3	4559.9	4813.9	5083.2	3775.8
65°	900.8	880.7	1143.6	1604.9	2409.9	3611.3	5094.3	5423.0	5451.7	5693.7	4438.5
67.5°	554.5	563.5	686.6	937.1	1424.9	2624.5	5033.1	6477.7	6326.8	6443.2	5053.7
70°	416.4	427.5	512.2	641.3	868.8	1500.6	4047.7	6733.4	6944.1	6914.2	5240.9
71°	362.1	373.7	461.7	583.6	729.7	1158.1	3410.3	6465.8	6965.5	6960.4	5170.4
72.5°	308.6	316.0	384.8	494.2	615.2	811.8	2562.1	5798.9	6668.5	6839.0	4918.6
75°	242.4	247.9	278.7	377.1	484.4	498.5	1374.9	4347.5	5476.9	5801.8	4094.7
77.5°	197.6	201.3	217.1	280.1	373.7	353.1	721.2	2829.7	3431.3	3758.3	2412.1
80°	156.9	161.1	170.6	189.8	280.1	251.8	344.1	1433.9	1657.4	1654.1	962.8
82.5°	121.9	123.1	134.2	139.4	191.5	178.7	186.4	607.0	672.5	694.8	347.6
85°	77.0	80.8	118.8	106.9	114.5	104.7	91.9	241.1	297.1	292.8	138.9
87.5°	23.5	24.8	40.2	45.3	50.9	45.8	33.8	71.0	86.8	94.0	34.6
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°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	960.2	955.5	938.8	925.2	912.3	898.2	886.2	882.8	879.9	878.5	878.1
5°	969.2	955.0	922.2	895.2	873.9	854.2	841.8	836.2	830.7	830.7	832.3
7.5°	982.0	956.4	905.5	865.3	838.4	820.0	811.0	810.1	811.4	812.7	813.2
10°	996.1	955.5	881.1	831.1	807.2	798.6	799.0	806.3	813.2	818.3	819.1
12.5°	1009.8	950.3	852.4	799.0	783.6	785.3	797.4	813.6	826.8	834.1	834.5
15°	1025.2	942.3	817.9	768.7	763.5	776.8	799.0	823.8	843.9	855.9	857.1
17.5°	1038.0	928.5	781.5	739.2	745.6	769.9	800.7	832.8	857.1	872.1	874.7
20°	1052.5	911.1	743.9	711.0	729.3	762.3	797.4	831.9	857.1	871.7	875.1
22.5°	1064.1	886.2	708.0	687.9	714.8	752.9	785.7	813.6	834.1	841.8	846.9
25°	1068.8	855.0	674.2	669.1	703.2	737.5	759.7	775.5	782.0	781.0	783.2
27.5°	1066.2	819.1	645.1	654.1	688.7	713.5	724.6	723.3	711.8	701.1	706.3
30°	1055.5	776.4	620.7	638.7	669.9	683.6	681.9	665.2	643.4	623.3	624.6
32.5°	1036.3	730.2	598.1	621.2	643.4	649.4	637.8	616.0	584.8	558.8	554.9
35°	1020.0	686.2	578.0	601.1	616.9	613.9	602.8	574.6	546.4	523.3	519.4
37.5°	1017.5	648.6	558.8	578.4	587.4	583.1	569.4	545.5	535.2	517.7	515.6
40°	1031.2	622.0	539.1	554.5	558.8	555.3	540.3	526.7	536.1	531.8	531.8
42.5°	1068.4	608.0	521.6	530.6	534.0	536.6	525.9	514.3	525.9	506.2	499.8
45°	1127.4	608.4	505.8	507.0	517.3	526.3	519.0	501.9	495.9	456.6	448.9
47.5°	1214.2	622.9	492.9	484.8	503.2	518.1	507.9	483.1	456.6	430.5	425.8
50°	1315.5	649.0	481.4	461.7	484.4	507.9	500.2	471.1	443.8	428.0	425.0
52.5°	1427.9	681.9	467.3	436.1	461.3	503.2	501.9	469.4	431.8	421.1	418.6
55°	1566.9	714.3	449.8	406.1	440.8	499.3	497.2	455.3	429.2	421.5	420.7
57.5°	1728.4	761.4	424.5	375.8	417.2	483.5	478.8	446.7	420.7	415.1	414.7
60°	1988.8	834.5	388.6	348.0	393.3	455.7	461.7	432.2	407.0	405.7	405.3
62.5°	2331.3	937.1	351.5	319.3	365.5	419.8	436.9	412.6	392.5	398.9	399.7
65°	2804.1	1023.5	312.9	295.0	334.7	385.2	413.4	394.2	376.2	388.6	388.6
67.5°	3112.3	1025.2	277.9	269.8	303.5	356.2	388.6	372.4	355.2	376.2	377.1
70°	3048.2	898.2	248.9	243.2	273.2	324.9	361.3	348.4	328.7	347.6	340.8
71°	2944.8	827.7	237.2	233.0	261.2	309.9	348.4	337.7	318.1	330.4	326.6
72.5°	2779.8	718.6	218.5	219.3	243.2	291.2	330.4	319.3	299.6	306.5	305.3
75°	2349.7	627.6	186.8	190.7	209.1	259.1	294.5	286.0	265.9	265.9	264.7
77.5°	1469.0	438.7	155.2	157.4	177.5	221.9	253.1	245.8	226.6	220.2	218.5
80°	548.1	226.6	121.4	124.0	136.4	174.8	209.5	202.7	183.0	175.7	168.9
82.5°	207.3	113.7	89.3	87.2	100.5	133.4	164.2	156.0	140.6	123.1	118.0
85°	78.2	56.4	54.7	53.0	59.0	79.1	101.8	100.1	83.8	71.4	70.1
87.5°	20.5	18.4	21.4	15.8	16.7	15.0	15.4	6.4	3.0	1.3	0.8
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)