

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: P647237

Luminaire Tested: **GALN-SA1D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5385.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

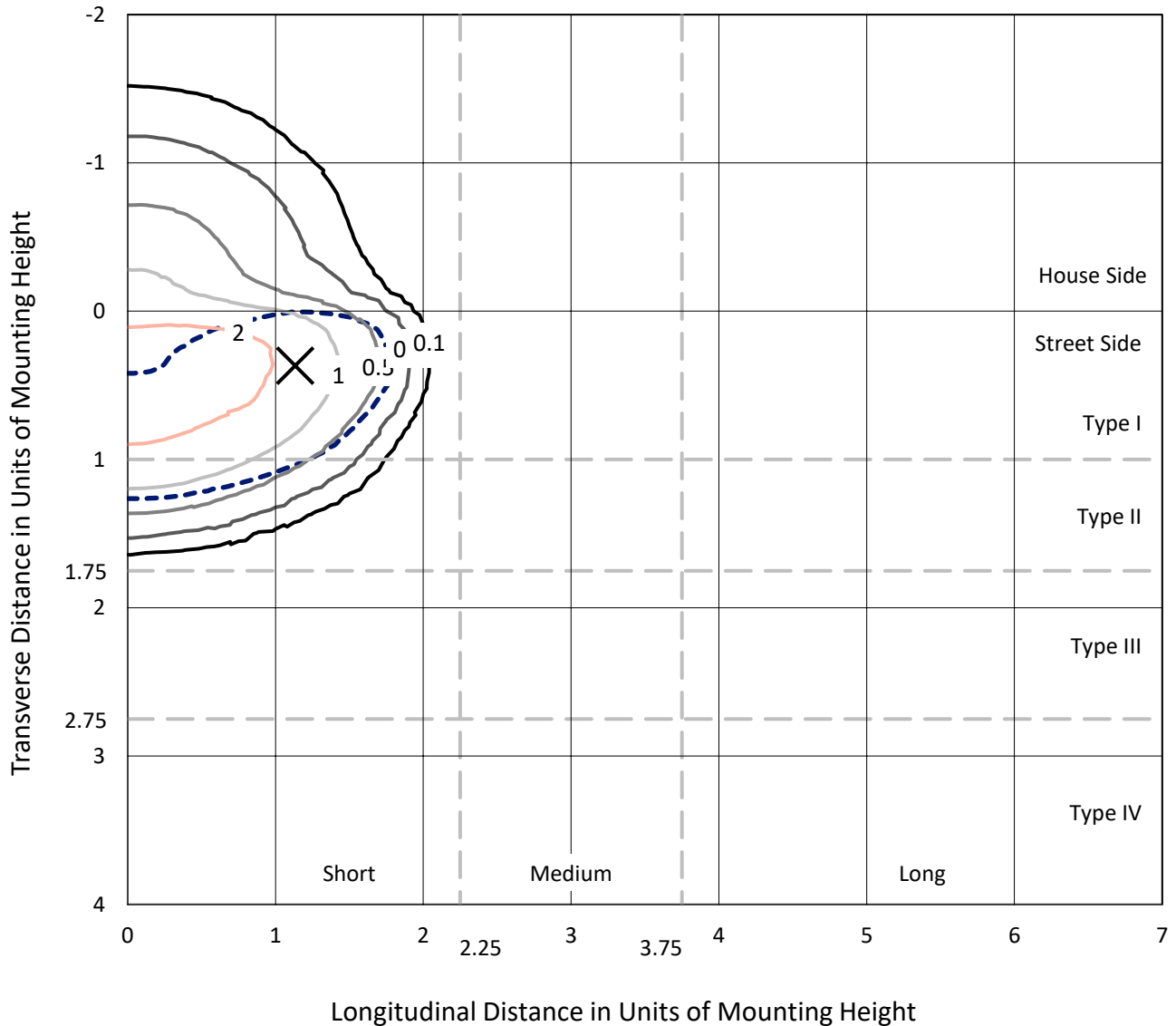
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

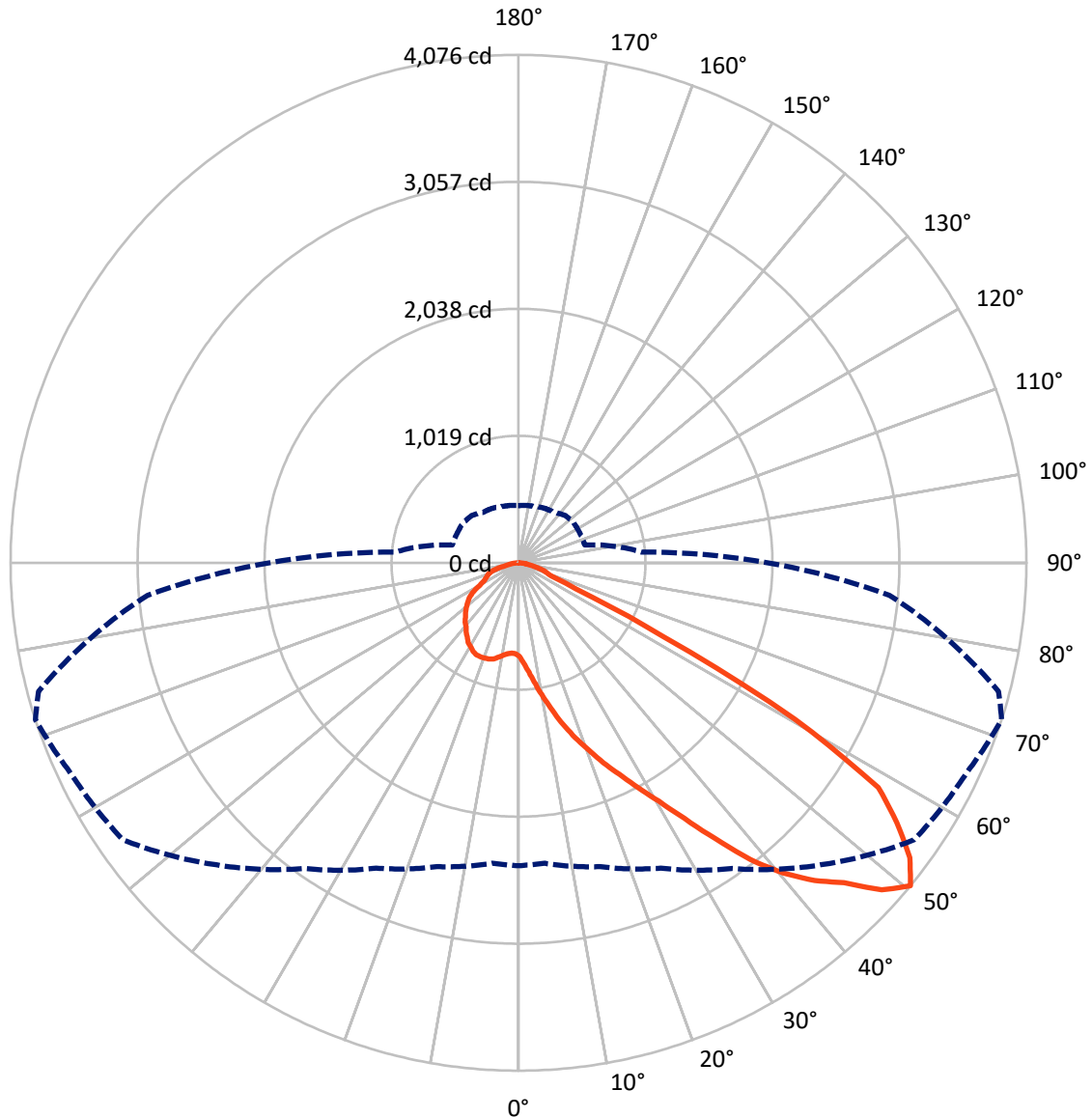
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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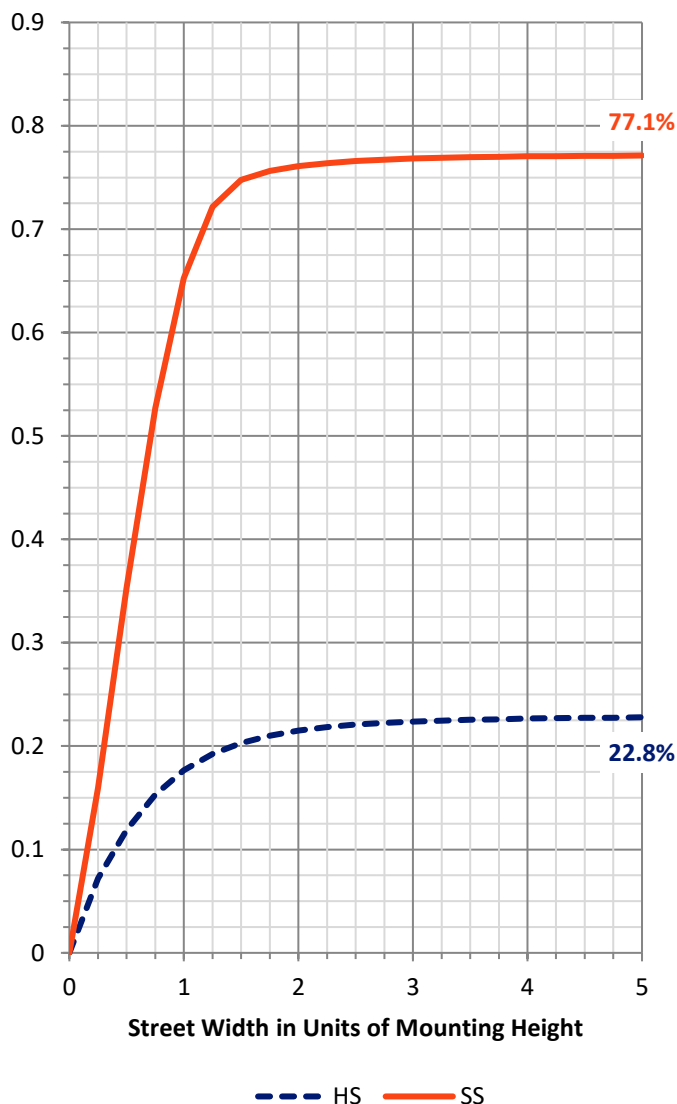
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.9	0.0	1233.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4151.6	0.0	4151.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	5385.5	0.0	5385.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.6
10°-20°	329.7	6.1
20°-30°	639.2	11.9
30°-40°	1058.9	19.7
40°-50°	1481.7	27.5
50°-60°	1250.0	23.2
60°-70°	381.0	7.1
70°-80°	133.7	2.5
80°-90°	23.2	0.4
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°	5385.5	100.0
0°-180°	5385.5	100.0

Coefficient of Utilization



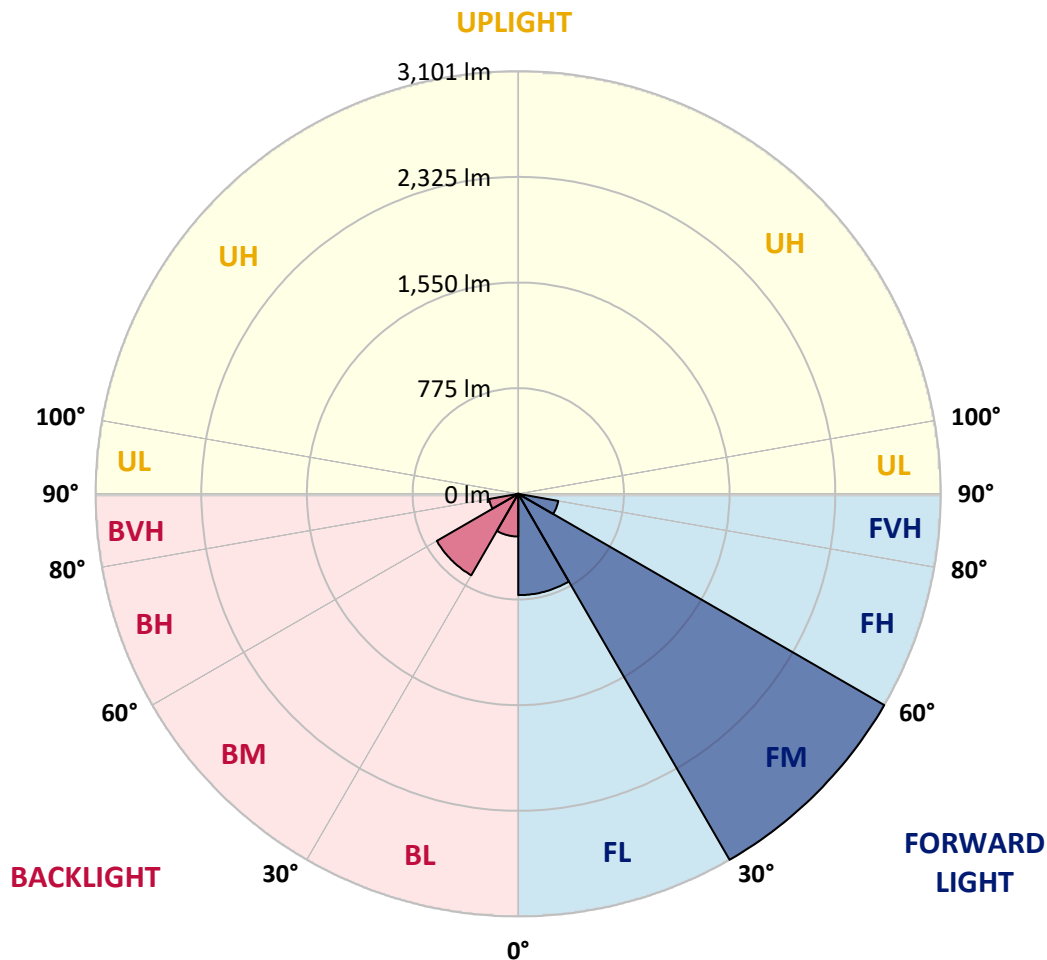
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.4	13.8			
FM (30°-60°)	3100.6	57.6			
FH (60°-80°)	297.3	5.5			G0/660
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	313.7	5.8	B1/500		
BM (30°-60°)	690.0	12.8	B1/1000		
BH (60°-80°)	217.4	4.0	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	964.3	958.3	940.3	934.3	913.0	874.3	861.0	821.7	805.0	789.7	771.7
5°	1219.5	1191.5	1189.5	1155.6	1106.2	1077.6	992.3	935.0	882.3	855.7	806.3
7.5°	1382.2	1382.8	1382.8	1354.8	1315.5	1242.9	1166.2	1062.9	983.6	944.3	860.4
10°	1536.7	1523.4	1516.0	1513.4	1486.8	1416.1	1334.2	1206.2	1097.5	1051.6	901.0
12.5°	1646.0	1634.7	1651.3	1642.7	1623.4	1577.4	1500.1	1354.1	1218.2	1156.2	966.3
15°	1698.0	1706.0	1719.3	1743.3	1734.7	1717.4	1632.0	1506.1	1348.2	1278.2	1024.2
17.5°	1778.0	1756.0	1771.9	1801.9	1826.0	1818.0	1769.3	1616.0	1476.7	1390.8	1102.2
20°	1833.9	1821.3	1829.2	1863.9	1881.9	1927.3	1901.9	1759.9	1600.1	1509.4	1194.2
22.5°	1993.9	1975.2	1949.2	1954.5	1961.3	1993.2	1999.2	1917.9	1743.3	1647.4	1281.5
25°	2191.1	2173.8	2143.1	2111.8	2092.5	2086.5	2107.1	2041.8	1880.6	1781.3	1375.4
27.5°	2408.4	2379.1	2359.7	2295.1	2243.1	2235.2	2225.1	2189.8	2043.2	1935.9	1481.4
30°	2619.6	2596.3	2570.4	2467.0	2413.0	2404.4	2355.1	2365.1	2219.8	2100.5	1601.4
32.5°	2779.6	2781.5	2722.3	2644.3	2593.6	2547.6	2529.6	2558.3	2446.4	2350.4	1735.3
35°	2908.8	2914.9	2858.2	2787.6	2732.9	2764.9	2756.9	2770.3	2716.9	2599.6	1891.3
37.5°	3034.8	3004.8	2944.2	2910.2	2881.5	2934.1	3002.2	3013.5	3023.5	2885.5	2072.5
40°	3055.4	3058.2	3022.8	3046.8	3010.8	3090.1	3248.0	3233.4	3274.0	3153.5	2269.1
42.5°	3026.1	3032.2	3046.1	3080.1	3166.8	3262.1	3496.6	3436.7	3486.0	3378.6	2460.3
45°	2978.1	2953.5	2970.9	3100.1	3250.1	3462.0	3723.9	3677.2	3661.2	3571.3	2688.3
47.5°	2748.9	2774.2	2828.2	2987.5	3212.7	3496.6	3885.2	3874.4	3922.4	3859.2	2895.5
50°	2431.1	2421.0	2525.0	2704.2	2994.8	3428.7	3876.5	3973.1	4076.4	3988.4	2988.2
52.5°	1820.6	1874.0	1963.2	2185.8	2600.3	3058.2	3687.2	3848.4	3932.5	3913.8	2913.5
55°	1150.9	1166.9	1220.9	1485.4	1858.6	2454.4	3160.7	3534.6	3684.6	3754.5	2844.9
57.5°	559.1	529.2	595.1	807.7	1073.6	1650.6	2437.7	3078.8	3404.6	3531.3	2695.6
60°	291.9	303.2	329.2	405.2	555.1	857.0	1519.4	2051.9	2549.7	2744.3	2043.2
62.5°	241.9	245.9	263.2	301.2	369.2	493.1	775.7	1000.3	1300.2	1475.4	1162.2
65°	205.2	207.3	225.9	251.3	294.6	347.2	399.2	417.8	505.8	519.1	413.2
67.5°	171.2	173.3	193.2	217.3	245.2	259.3	272.6	271.2	281.3	277.3	276.6
70°	131.9	134.0	154.6	179.9	193.9	186.0	227.2	236.5	240.5	243.9	249.2
72.5°	95.3	99.3	115.3	133.3	126.0	144.6	187.3	201.2	206.6	208.6	215.2
75°	69.3	70.6	74.6	69.3	79.9	100.6	131.9	149.2	156.0	157.9	168.0
77.5°	30.7	31.3	32.0	40.0	51.3	62.6	78.6	92.6	101.9	104.6	107.3
80°	16.0	16.7	20.7	27.3	36.6	46.0	57.3	65.3	71.3	72.0	74.6
82.5°	10.0	10.6	14.6	19.3	26.0	34.0	42.0	48.6	53.3	53.9	54.7
85°	4.7	6.0	8.7	12.0	17.3	22.0	22.6	19.3	20.7	21.3	20.0
87.5°	1.3	2.0	2.7	2.0	2.7	2.7	3.4	4.0	4.0	4.0	4.7
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°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	761.7	755.7	732.3	723.7	701.0	705.1	693.0	692.4	689.7	689.0	688.4
5°	780.3	761.7	733.7	712.4	699.7	698.4	689.7	689.7	692.4	694.4	689.7
7.5°	811.0	789.7	742.4	722.4	711.0	709.1	703.1	698.4	704.4	702.4	697.0
10°	846.3	809.0	759.0	741.7	723.0	718.4	718.4	720.4	710.4	713.7	708.4
12.5°	885.7	835.7	780.3	760.4	738.4	735.7	734.4	719.7	725.1	722.4	709.1
15°	935.6	866.3	807.7	773.7	755.0	743.1	725.7	723.0	719.7	713.1	707.0
17.5°	989.6	899.7	820.3	777.7	749.7	741.0	727.7	713.7	703.8	705.1	700.4
20°	1035.6	930.3	825.0	781.7	745.7	729.1	708.4	699.7	689.0	688.4	687.7
22.5°	1090.2	971.6	831.7	771.0	733.7	716.4	702.4	687.1	679.7	670.4	675.1
25°	1155.6	987.6	833.0	765.1	725.1	694.4	687.1	670.4	667.7	654.4	657.1
27.5°	1202.8	996.3	822.3	746.4	705.1	681.8	668.4	656.4	651.8	641.7	639.1
30°	1266.2	1009.6	799.7	723.0	685.0	659.1	651.1	648.4	635.1	624.4	623.1
32.5°	1338.1	1018.3	785.0	699.1	664.4	644.4	648.4	635.7	619.1	609.7	607.1
35°	1395.5	1021.6	748.4	671.7	650.4	637.8	633.1	630.4	606.4	597.7	591.1
37.5°	1482.8	1014.3	717.7	652.4	635.1	630.4	626.4	608.4	581.1	568.5	559.1
40°	1584.7	1012.3	678.4	625.1	620.4	625.8	613.8	585.8	547.8	533.8	527.1
42.5°	1682.7	1026.3	653.7	610.4	604.4	606.4	589.8	547.8	529.2	521.2	510.4
45°	1846.6	1055.6	613.1	587.8	585.1	583.8	563.8	519.8	509.1	499.2	497.1
47.5°	1994.5	1036.2	587.1	564.5	567.1	559.8	517.1	503.2	491.2	481.2	477.8
50°	2003.2	990.3	550.4	546.5	547.1	534.5	493.8	484.4	469.2	462.5	457.8
52.5°	1957.9	914.9	516.5	517.8	519.8	499.2	465.2	458.4	445.8	436.5	433.9
55°	1830.6	797.7	483.1	488.4	493.8	454.5	443.8	427.1	417.2	403.9	404.5
57.5°	1612.7	642.5	436.5	445.1	456.5	413.2	405.2	384.5	369.9	359.2	357.8
60°	1080.9	457.1	366.5	369.9	395.2	377.9	377.2	356.5	336.5	327.2	321.9
62.5°	637.8	349.2	316.6	313.2	312.6	322.5	339.2	331.8	305.9	287.9	293.2
65°	333.9	301.8	294.6	283.2	276.6	273.9	286.6	289.9	272.6	253.2	251.9
67.5°	280.5	280.5	274.5	270.5	261.2	249.9	241.9	231.2	228.6	223.2	216.6
70°	255.3	261.9	259.9	250.6	242.6	229.9	209.2	191.9	175.2	169.3	173.3
72.5°	222.6	229.3	229.3	224.6	213.9	194.6	174.6	154.6	140.6	130.0	128.6
75°	171.2	174.6	182.6	177.3	163.3	151.3	130.6	109.9	96.6	86.6	84.6
77.5°	109.3	114.6	114.6	113.9	104.0	92.6	79.3	64.7	54.7	47.3	45.3
80°	72.7	76.0	78.6	76.0	69.3	60.6	50.7	40.6	33.4	27.3	26.0
82.5°	53.3	57.3	59.3	56.6	50.0	43.3	36.0	28.7	21.3	16.7	15.3
85°	20.7	21.3	24.0	28.7	28.0	27.3	22.0	16.0	12.0	8.7	8.0
87.5°	5.3	4.7	5.3	5.3	4.7	4.0	4.0	4.0	4.0	2.0	2.7
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)