

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: P651746

Luminaire Tested: **GALN-SA2A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5115 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

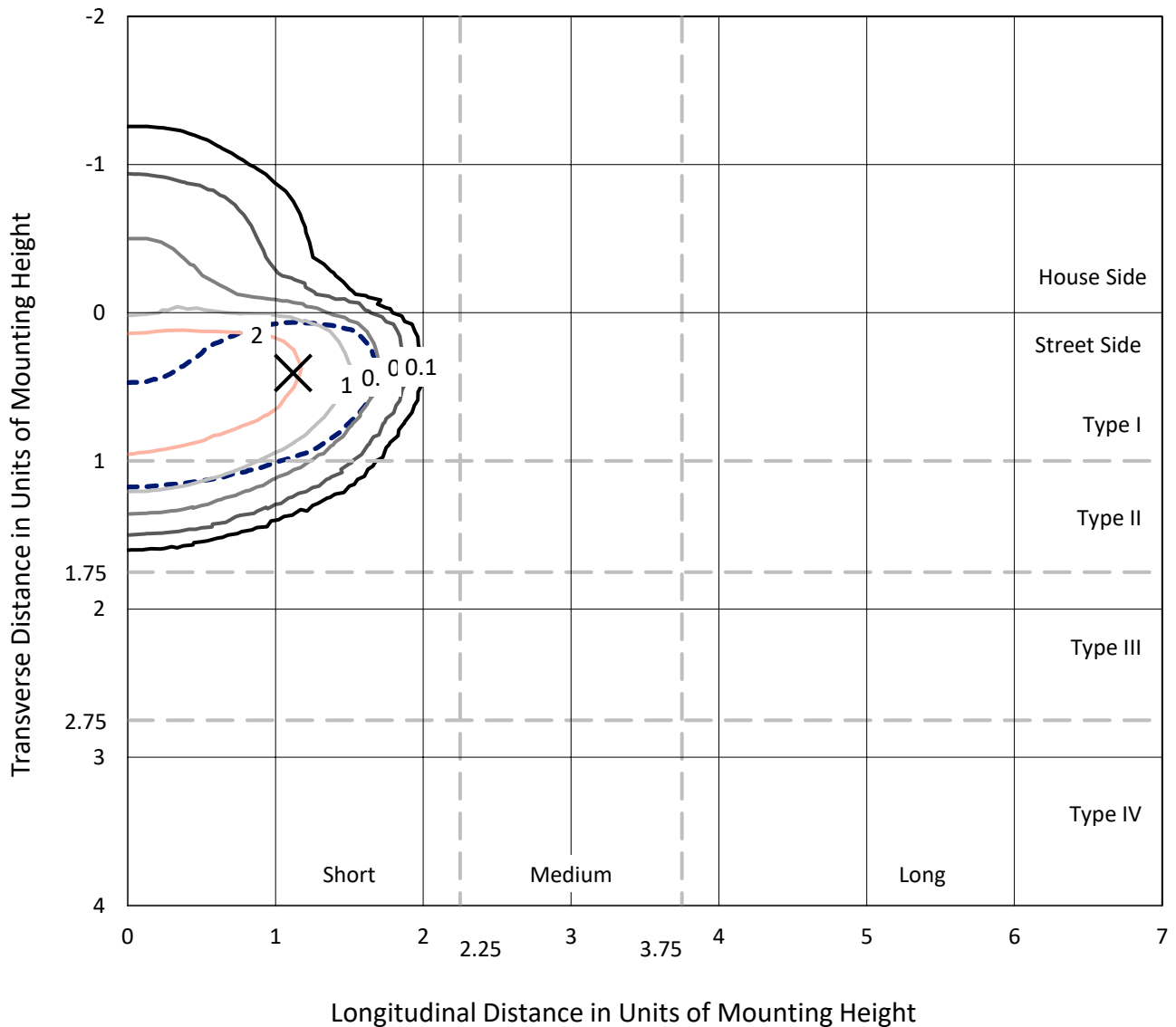
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

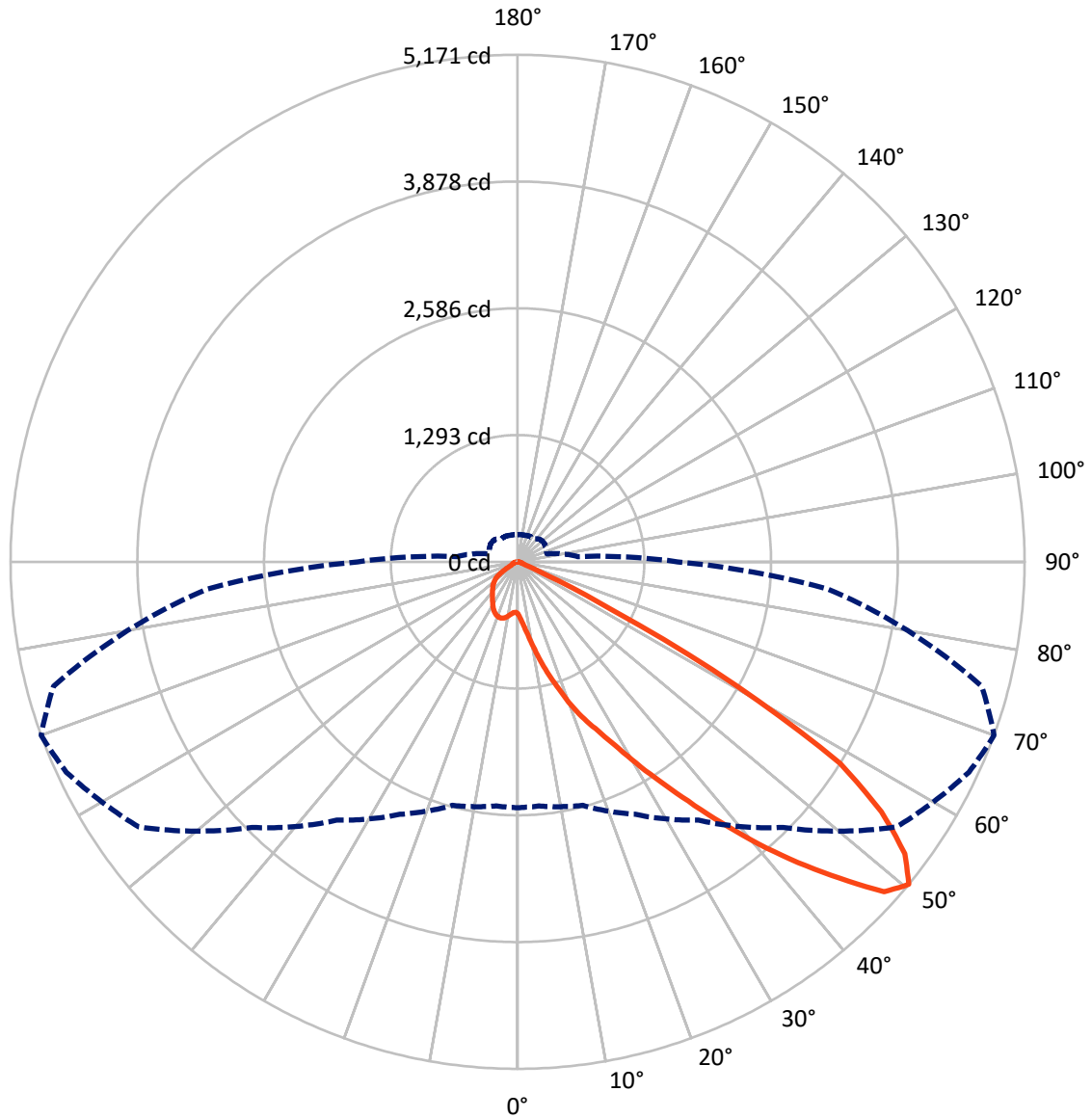
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type I - Short - N/A

REPORT NUMBER: P651746
CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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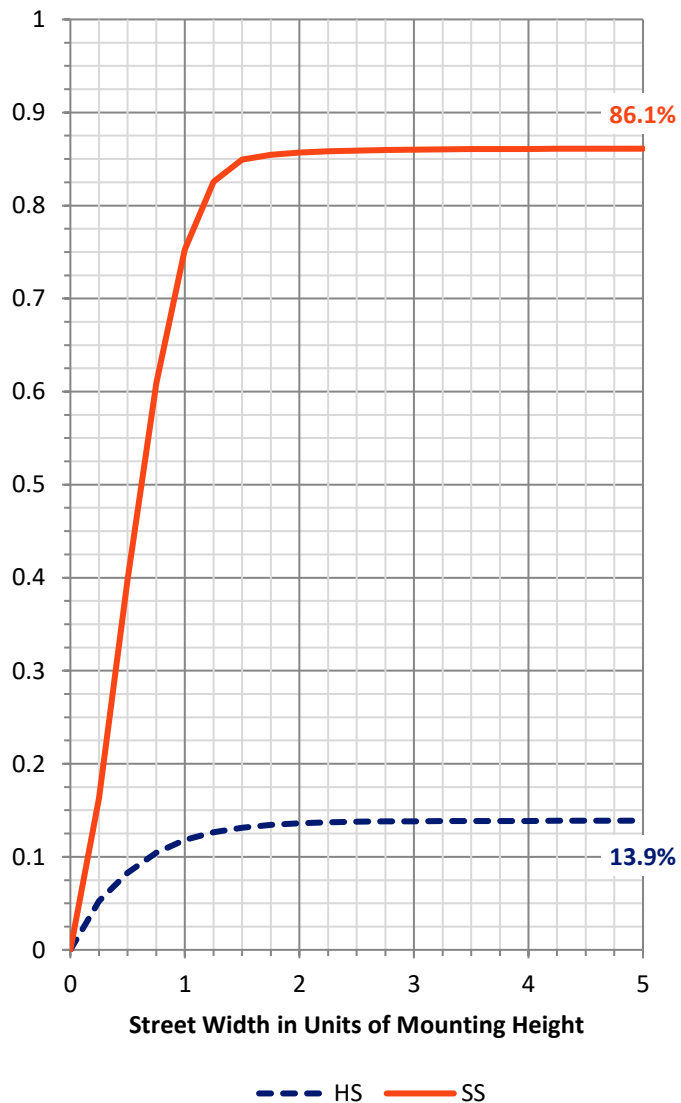
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.4	0.0	714.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4400.6	0.0	4400.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	5115.0	0.0	5115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.3
10°-20°	298.0	5.8
20°-30°	625.2	12.2
30°-40°	1077.6	21.1
40°-50°	1574.9	30.8
50°-60°	1226.6	24.0
60°-70°	207.8	4.1
70°-80°	28.5	0.6
80°-90°	7.4	0.1
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°	5115.0	100.0
0°-180°	5115.0	100.0

Coefficient of Utilization

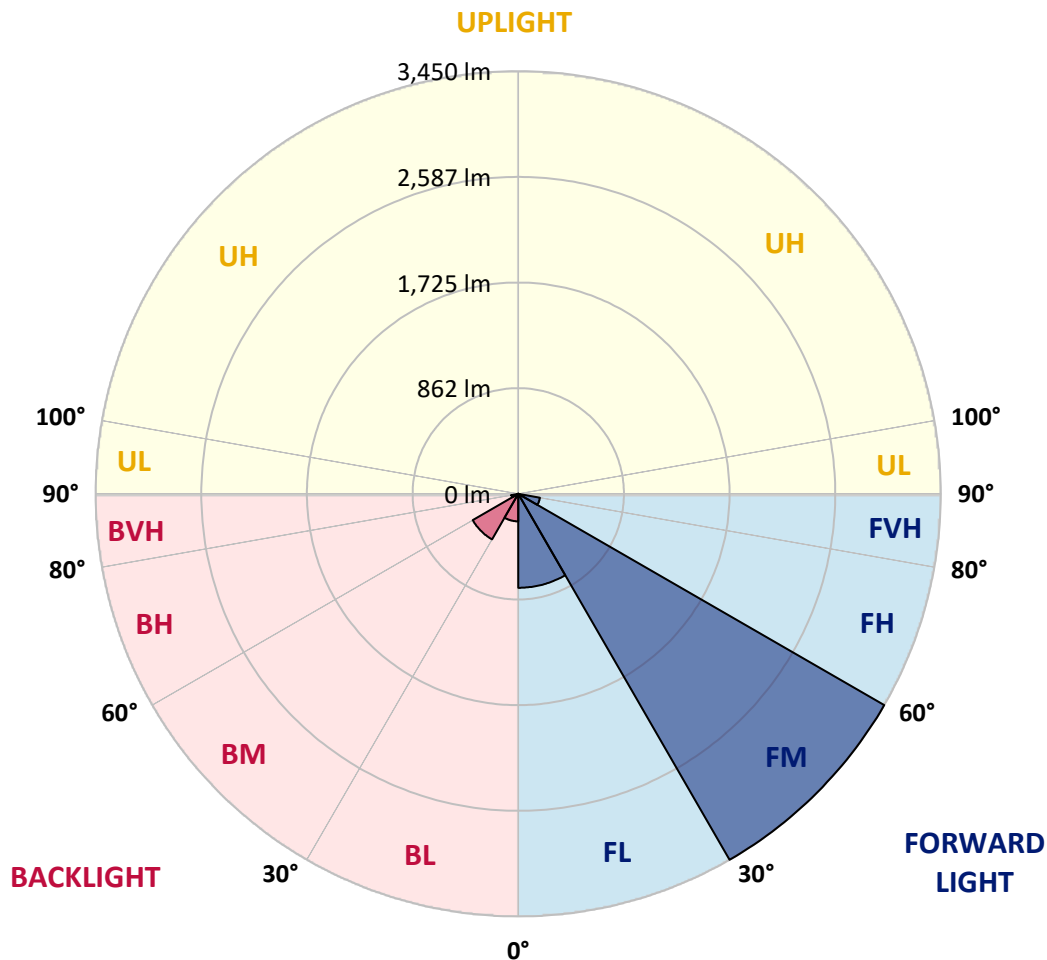


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 CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.3	15.0			
FM (30°-60°)	3450.0	67.4			
FH (60°-80°)	179.9	3.5			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	224.8	4.4	B1/500		
BM (30°-60°)	429.2	8.4	B1/1000		
BH (60°-80°)	56.4	1.1	B0/110		G0/110
BVH (80°-90°)	4.0	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 I Short





REPORT NUMBER: P651746

CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
2.5°	693.8	688.8	677.8	657.7	649.3	629.1	617.3	594.6	580.3	564.3	546.6
5°	977.2	951.2	935.2	912.5	846.0	804.8	736.7	678.7	651.8	622.3	582.0
7.5°	1269.8	1253.0	1231.1	1182.4	1136.9	1051.2	934.4	806.5	751.9	701.4	621.5
10°	1512.0	1464.9	1462.4	1426.3	1376.6	1274.0	1133.6	974.7	877.2	803.2	677.8
12.5°	1681.1	1638.2	1657.5	1653.3	1607.1	1512.9	1350.6	1140.3	1038.6	923.4	735.9
15°	1835.0	1817.3	1811.4	1806.4	1787.9	1718.1	1572.6	1342.2	1195.0	1056.3	801.5
17.5°	1985.5	1940.1	1962.0	1966.2	1964.5	1901.4	1765.2	1533.9	1360.7	1196.7	870.4
20°	2119.2	2123.4	2094.0	2088.1	2083.1	2080.5	1947.7	1724.0	1564.2	1343.8	960.4
22.5°	2290.8	2261.4	2287.4	2270.6	2237.8	2217.6	2115.9	1892.2	1740.8	1521.3	1052.1
25°	2493.5	2517.0	2455.6	2448.9	2412.7	2342.9	2251.3	2080.5	1910.7	1686.1	1151.2
27.5°	2743.3	2702.0	2686.1	2649.1	2583.5	2554.0	2446.4	2274.8	2115.9	1859.4	1247.1
30°	2957.7	2946.8	2866.9	2823.2	2766.0	2765.1	2614.6	2538.1	2383.3	2131.0	1379.2
32.5°	3132.6	3084.7	3055.3	3025.0	2978.7	2991.4	2864.4	2824.0	2668.4	2383.3	1534.7
35°	3249.5	3215.1	3197.4	3151.1	3137.7	3194.0	3141.1	3124.2	2996.4	2738.2	1717.2
37.5°	3286.5	3297.4	3294.0	3236.0	3264.6	3416.8	3484.9	3441.2	3373.9	3112.5	1914.9
40°	3319.3	3326.8	3310.0	3378.1	3459.7	3633.0	3879.4	3807.0	3781.8	3491.7	2189.9
42.5°	3337.8	3331.9	3331.9	3449.6	3573.2	3921.4	4260.3	4212.4	4193.1	3895.3	2507.8
45°	3257.9	3200.8	3262.1	3421.9	3670.8	4063.5	4564.8	4631.2	4603.5	4375.6	2879.5
47.5°	2959.4	2994.7	3029.2	3242.7	3552.2	4019.8	4751.5	4977.7	5029.0	4779.2	3123.4
50°	2507.8	2500.2	2571.7	2840.8	3216.7	3831.4	4715.3	5077.8	5171.1	4900.3	3174.7
52.5°	1824.0	1879.6	1956.9	2224.4	2670.1	3343.6	4248.6	4819.6	4944.1	4751.5	3141.1
55°	1062.2	1000.8	1174.8	1401.0	1821.5	2522.1	3591.7	4272.1	4502.5	4480.7	2971.2
57.5°	425.5	412.1	471.8	635.8	950.3	1563.3	2612.1	3510.2	3879.4	4103.9	2611.2
60°	186.7	182.5	214.5	259.0	388.5	720.7	1428.8	2183.2	2568.3	2867.7	1797.1
62.5°	134.6	132.9	148.9	164.8	205.2	313.7	600.5	879.7	1096.6	1324.5	804.8
65°	108.5	112.7	123.6	132.0	151.4	174.1	211.9	244.7	300.2	311.2	177.5
67.5°	88.3	91.7	101.8	111.0	114.4	94.2	97.6	85.8	85.8	76.5	61.4
70°	64.8	65.6	77.4	88.3	70.6	37.8	66.4	66.4	59.7	57.2	52.1
72.5°	47.9	48.8	58.0	54.7	27.8	23.5	48.8	53.8	48.8	46.3	42.0
75°	35.3	36.2	30.3	12.6	11.8	15.1	28.6	37.0	35.3	34.5	32.0
77.5°	6.7	5.0	4.2	5.9	8.4	12.6	18.5	22.7	23.5	25.2	23.5
80°	0.8	0.8	2.5	5.0	9.3	13.5	19.3	21.9	22.7	23.5	21.9
82.5°	0.0	0.8	2.5	5.0	9.3	12.6	16.8	19.3	21.0	21.9	21.0
85°	0.0	0.8	1.7	4.2	7.6	9.3	8.4	5.9	5.0	5.9	4.2
87.5°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651746

CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
2.5°	536.6	533.2	521.4	508.8	497.9	502.9	497.9	493.7	495.3	493.7	492.0
5°	566.0	550.9	525.6	514.7	505.4	504.6	502.1	501.2	502.1	502.1	494.5
7.5°	593.7	569.4	542.4	530.7	519.7	520.6	514.7	514.7	513.9	509.6	508.0
10°	635.8	603.0	568.5	547.5	534.0	531.5	525.6	519.7	519.7	519.7	511.3
12.5°	682.1	640.8	593.7	569.4	553.4	540.8	531.5	529.8	520.6	518.9	514.7
15°	722.4	670.3	610.6	576.9	556.7	539.9	525.6	516.4	512.2	509.6	506.3
17.5°	761.9	695.5	619.8	576.9	555.1	535.7	520.6	512.2	502.1	503.8	497.0
20°	814.9	722.4	622.3	566.0	539.1	520.6	500.4	496.2	490.3	485.3	486.9
22.5°	866.2	741.8	614.8	552.5	513.9	492.0	481.9	476.8	474.3	470.1	464.2
25°	912.5	762.8	603.0	528.1	486.9	471.0	461.7	460.9	455.0	455.0	444.0
27.5°	959.6	770.4	582.8	499.6	463.4	454.1	449.9	448.3	445.7	439.8	432.3
30°	1013.4	772.9	553.4	470.1	442.4	432.3	438.2	442.4	431.4	420.5	423.9
32.5°	1058.0	767.0	518.1	442.4	427.2	422.2	434.0	438.2	425.5	413.8	407.9
35°	1111.7	752.7	483.6	420.5	412.1	422.2	432.3	432.3	407.0	392.7	389.4
37.5°	1193.3	736.7	451.6	402.0	396.1	417.1	430.6	421.3	381.8	364.2	359.9
40°	1280.8	726.6	420.5	383.5	387.7	408.7	416.3	387.7	347.3	336.4	333.0
42.5°	1407.7	706.4	392.7	367.5	380.1	397.0	397.0	345.7	330.5	324.6	323.8
45°	1565.9	692.1	368.4	354.1	369.2	373.4	359.9	323.8	312.9	311.2	312.0
47.5°	1643.2	664.4	343.1	338.1	349.0	349.9	314.5	306.1	296.9	294.3	292.7
50°	1631.5	614.8	310.3	317.1	332.2	323.8	286.8	288.5	280.1	279.2	275.0
52.5°	1549.0	536.6	277.5	293.5	310.3	285.9	264.1	262.4	262.4	251.5	247.3
55°	1373.3	432.3	238.0	258.2	278.4	240.5	234.6	233.0	228.8	218.7	216.1
57.5°	1087.3	317.1	179.1	201.0	236.3	204.4	203.5	196.0	185.0	177.5	177.5
60°	646.7	182.5	112.7	122.8	156.4	165.7	184.2	180.8	162.3	150.5	147.2
62.5°	295.2	94.2	71.5	73.2	84.1	107.6	144.7	167.4	141.3	121.1	119.4
65°	99.2	69.8	58.9	56.3	58.0	64.8	86.6	118.6	112.7	93.4	90.0
67.5°	60.6	62.2	55.5	51.3	51.3	50.5	49.6	53.8	66.4	64.8	65.6
70°	52.1	57.2	51.3	46.3	44.6	42.0	35.3	29.4	25.2	29.4	31.1
72.5°	42.0	45.4	43.7	39.5	35.3	32.0	25.2	19.3	14.3	12.6	12.6
75°	31.1	33.6	35.3	30.3	26.9	22.7	18.5	12.6	7.6	5.0	5.0
77.5°	22.7	25.2	26.1	23.5	20.2	16.0	11.8	8.4	4.2	1.7	1.7
80°	19.3	22.7	25.2	23.5	21.0	15.1	10.9	5.9	3.4	0.8	0.8
82.5°	18.5	22.7	25.2	22.7	20.2	14.3	10.9	6.7	2.5	0.8	0.8
85°	4.2	5.9	7.6	9.3	10.9	10.9	8.4	5.0	2.5	0.8	0.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	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)