

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: P652186

Luminaire Tested: **GALN-SA1B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652186
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-SA1B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3202.5 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

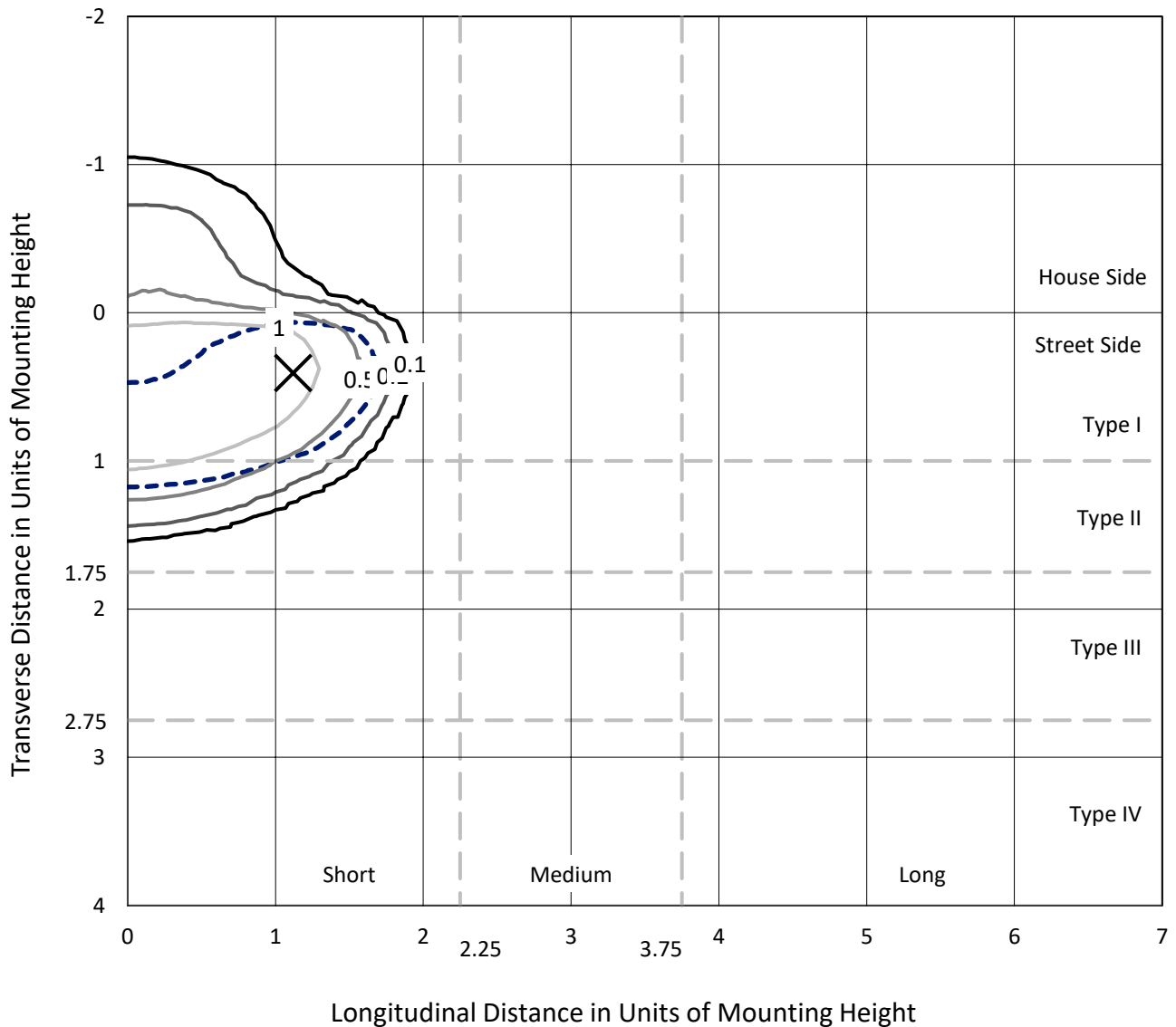
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652186
 CATALOG NUMBER: GALN-SA1B-840-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

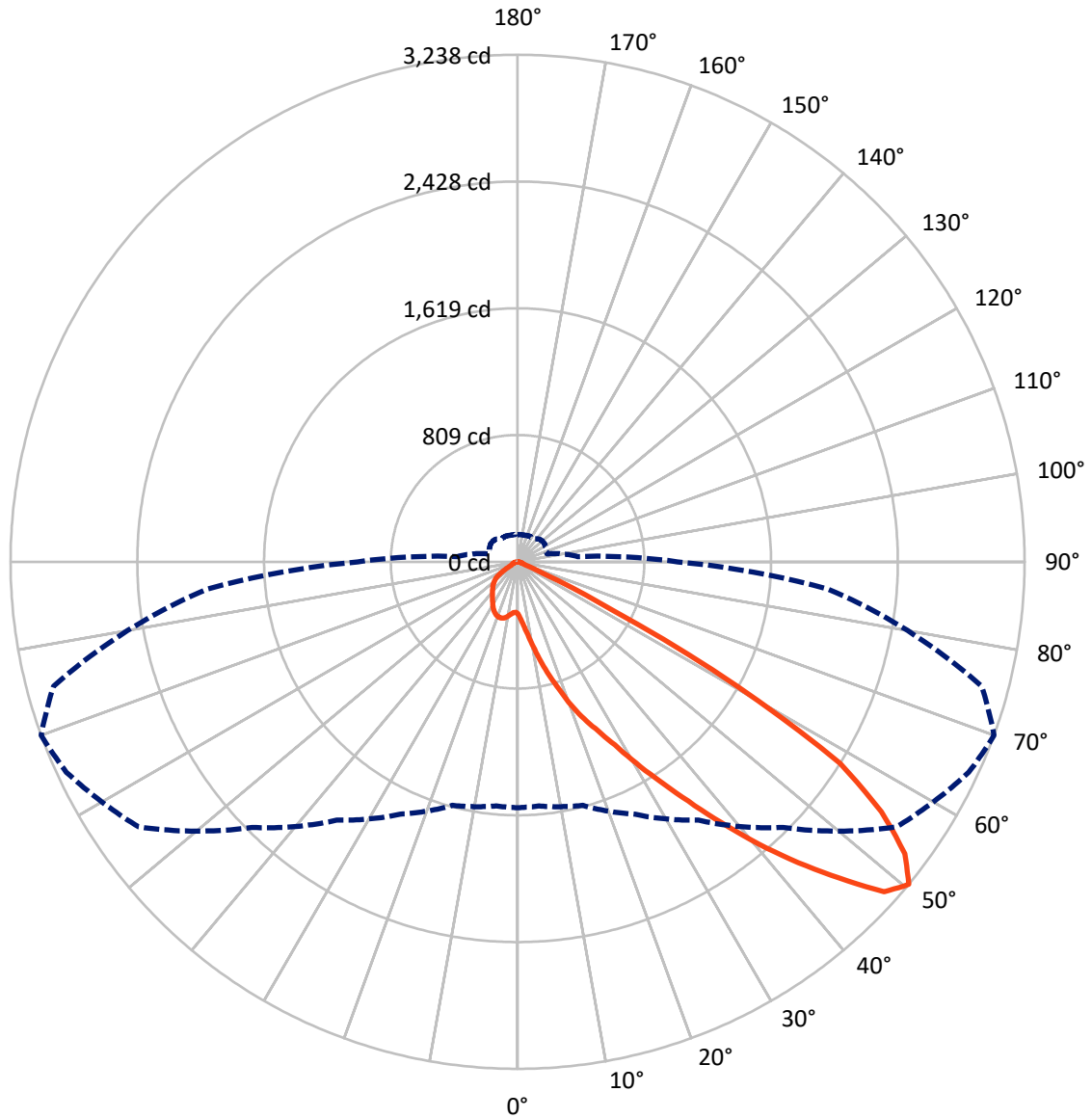
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type I - Short - N/A

REPORT NUMBER: P652186
CATALOG NUMBER: GALN-SA1B-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652186
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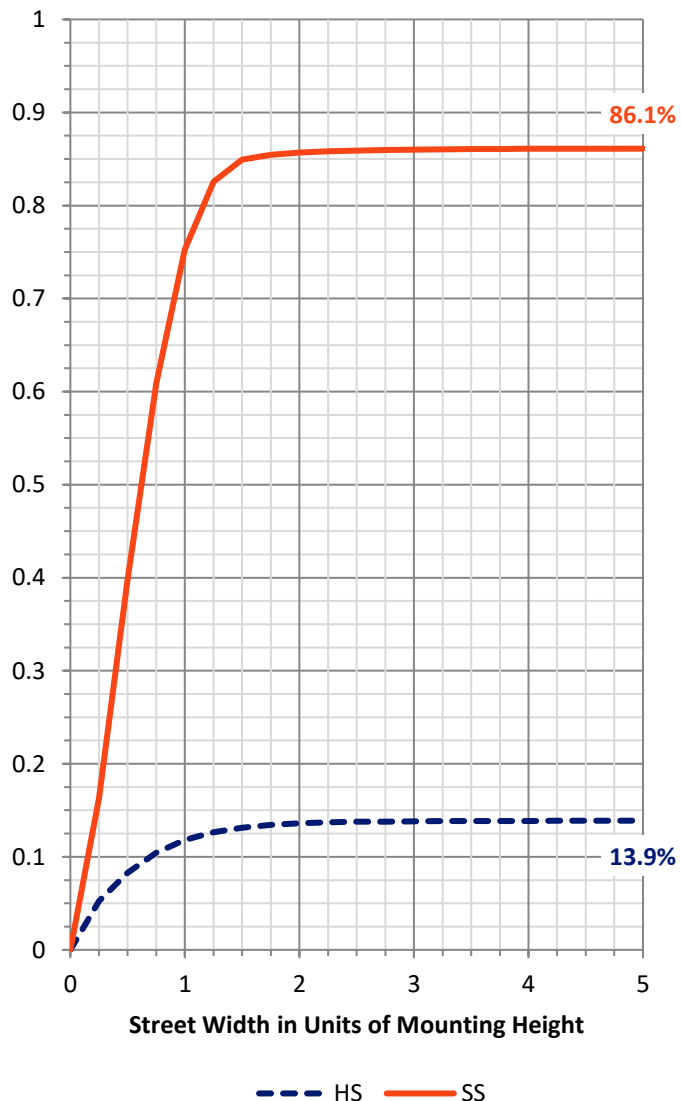
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	447.2	0.0	447.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2755.3	0.0	2755.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	3202.5	0.0	3202.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.3
10°-20°	186.6	5.8
20°-30°	391.4	12.2
30°-40°	674.7	21.1
40°-50°	986.1	30.8
50°-60°	768.0	24.0
60°-70°	130.1	4.1
70°-80°	17.9	0.6
80°-90°	4.6	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°	3202.5	100.0
0°-180°	3202.5	100.0

Coefficient of Utilization



REPORT NUMBER: P652186

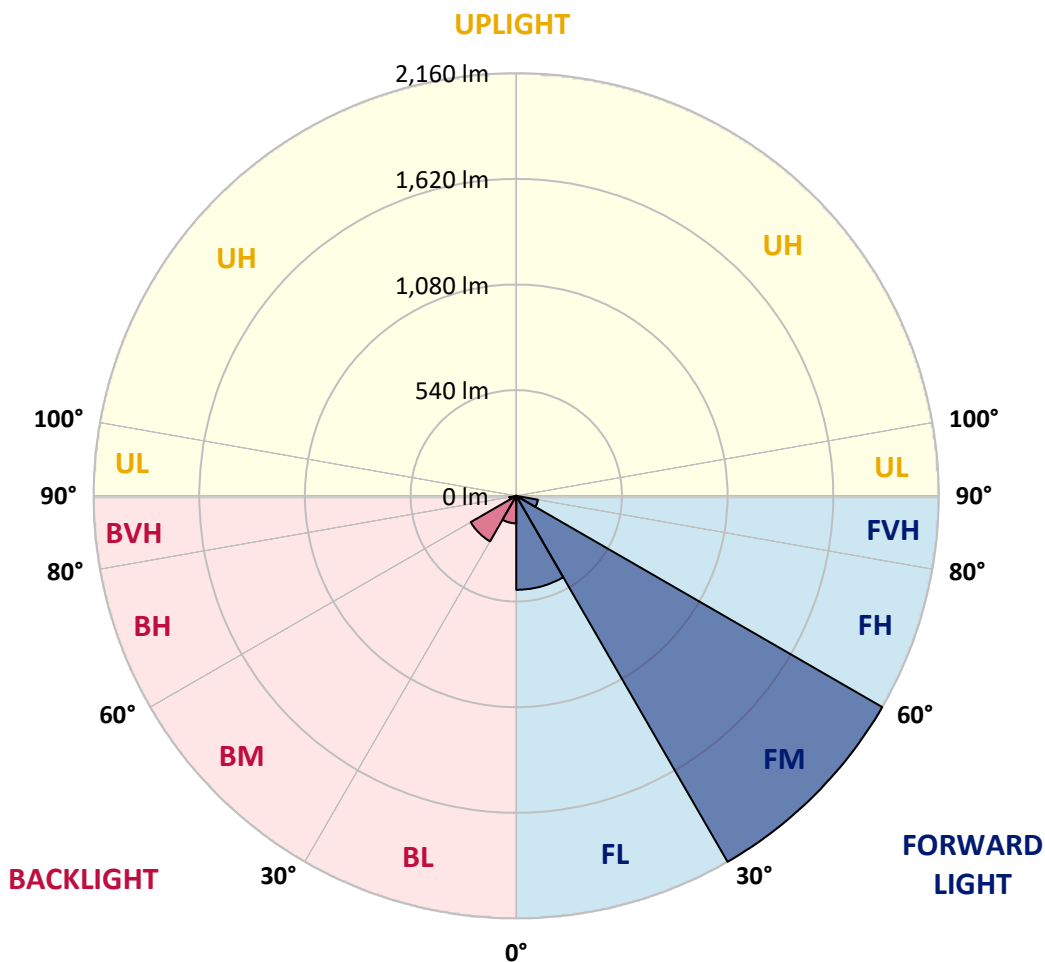
CATALOG NUMBER: GALN-SA1B-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.4	15.0			
FM (30°-60°)	2160.1	67.4			
FH (60°-80°)	112.7	3.5			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	140.7	4.4	B1/500		
BM (30°-60°)	268.7	8.4	B1/1000		
BH (60°-80°)	35.3	1.1	B0/110		G0/110
BVH (80°-90°)	2.5	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: P652186

CATALOG NUMBER: GALN-SA1B-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	434.4	431.3	424.4	411.8	406.5	393.8	386.4	372.2	363.3	353.3	342.3
5°	611.8	595.5	585.5	571.3	529.7	503.9	461.3	425.0	408.1	389.6	364.4
7.5°	795.1	784.6	770.9	740.3	711.9	658.2	585.0	504.9	470.7	439.2	389.1
10°	946.7	917.2	915.7	893.0	861.9	797.7	709.8	610.2	549.2	502.8	424.4
12.5°	1052.5	1025.7	1037.8	1035.2	1006.2	947.2	845.6	714.0	650.3	578.1	460.7
15°	1148.9	1137.9	1134.2	1131.0	1119.5	1075.7	984.6	840.3	748.2	661.4	501.8
17.5°	1243.2	1214.7	1228.4	1231.1	1230.0	1190.5	1105.2	960.4	851.9	749.2	545.0
20°	1326.8	1329.5	1311.1	1307.4	1304.2	1302.6	1219.4	1079.4	979.3	841.4	601.3
22.5°	1434.3	1415.8	1432.2	1421.6	1401.1	1388.5	1324.7	1184.7	1089.9	952.5	658.7
25°	1561.1	1575.9	1537.5	1533.3	1510.6	1467.0	1409.5	1302.6	1196.3	1055.7	720.8
27.5°	1717.6	1691.8	1681.7	1658.6	1617.5	1599.1	1531.7	1424.3	1324.7	1164.2	780.9
30°	1851.8	1845.0	1794.9	1767.6	1731.8	1731.3	1637.0	1589.1	1492.2	1334.2	863.5
32.5°	1961.4	1931.4	1912.9	1893.9	1865.0	1872.9	1793.3	1768.1	1670.7	1492.2	960.9
35°	2034.5	2012.9	2001.9	1972.9	1964.5	1999.8	1966.6	1956.1	1876.0	1714.4	1075.2
37.5°	2057.7	2064.6	2062.5	2026.1	2044.1	2139.3	2182.0	2154.6	2112.5	1948.7	1198.9
40°	2078.3	2083.0	2072.5	2115.1	2166.2	2274.7	2428.9	2383.6	2367.8	2186.2	1371.1
42.5°	2089.8	2086.2	2086.2	2159.9	2237.2	2455.2	2667.4	2637.5	2625.3	2438.9	1570.1
45°	2039.8	2004.0	2042.5	2142.4	2298.4	2544.2	2858.1	2899.7	2882.3	2739.6	1802.9
47.5°	1852.9	1875.0	1896.6	2030.3	2224.1	2516.9	2975.0	3116.6	3148.7	2992.3	1955.6
50°	1570.1	1565.4	1610.2	1778.6	2014.0	2398.9	2952.3	3179.2	3237.7	3068.1	1987.7
52.5°	1142.1	1176.8	1225.3	1392.7	1671.7	2093.5	2660.1	3017.6	3095.6	2975.0	1966.6
55°	665.0	626.5	735.5	877.2	1140.5	1579.1	2248.8	2674.8	2819.1	2805.4	1860.3
57.5°	266.4	258.0	295.4	398.0	595.0	978.8	1635.4	2197.8	2428.9	2569.5	1634.9
60°	116.9	114.3	134.3	162.1	243.3	451.3	894.6	1366.9	1608.1	1795.5	1125.2
62.5°	84.3	83.2	93.2	103.2	128.5	196.4	375.9	550.8	686.6	829.3	503.9
65°	68.0	70.6	77.4	82.7	94.8	109.0	132.7	153.2	188.0	194.9	111.1
67.5°	55.3	57.4	63.7	69.5	71.6	59.0	61.1	53.7	53.7	47.9	38.4
70°	40.5	41.0	48.4	55.3	44.2	23.7	41.6	41.6	37.4	35.8	32.6
72.5°	30.0	30.5	36.3	34.2	17.4	14.7	30.5	33.7	30.5	28.9	26.3
75°	22.1	22.6	18.9	7.9	7.4	9.5	17.9	23.1	22.1	21.6	20.0
77.5°	4.2	3.2	2.6	3.7	5.3	7.9	11.6	14.2	14.7	15.8	14.7
80°	0.5	0.5	1.6	3.2	5.8	8.4	12.1	13.7	14.2	14.7	13.7
82.5°	0.0	0.5	1.6	3.2	5.8	7.9	10.5	12.1	13.2	13.7	13.2
85°	0.0	0.5	1.1	2.6	4.7	5.8	5.3	3.7	3.2	3.7	2.6
87.5°	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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: P652186

CATALOG NUMBER: GALN-SA1B-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	335.9	333.8	326.5	318.6	311.7	314.9	311.7	309.1	310.2	309.1	308.1
5°	354.4	344.9	329.1	322.3	316.5	316.0	314.4	313.8	314.4	314.4	309.6
7.5°	371.7	356.5	339.6	332.3	325.4	325.9	322.3	322.3	321.7	319.1	318.1
10°	398.0	377.5	355.9	342.8	334.4	332.8	329.1	325.4	325.4	325.4	320.2
12.5°	427.1	401.2	371.7	356.5	346.5	338.6	332.8	331.7	325.9	324.9	322.3
15°	452.3	419.7	382.2	361.2	348.6	338.0	329.1	323.3	320.7	319.1	317.0
17.5°	477.0	435.5	388.0	361.2	347.5	335.4	325.9	320.7	314.4	315.4	311.2
20°	510.2	452.3	389.6	354.4	337.5	325.9	313.3	310.7	307.0	303.9	304.9
22.5°	542.4	464.4	384.9	345.9	321.7	308.1	301.7	298.6	297.0	294.3	290.6
25°	571.3	477.6	377.5	330.7	304.9	294.9	289.1	288.5	284.8	284.8	278.0
27.5°	600.8	482.3	364.9	312.8	290.1	284.3	281.7	280.6	279.0	275.3	270.6
30°	634.5	483.9	346.5	294.3	276.9	270.6	274.3	276.9	270.1	263.2	265.3
32.5°	662.4	480.2	324.4	276.9	267.5	264.3	271.7	274.3	266.4	259.0	255.4
35°	696.1	471.2	302.8	263.2	258.0	264.3	270.6	270.6	254.8	245.9	243.8
37.5°	747.1	461.3	282.7	251.7	248.0	261.1	269.6	263.8	239.0	228.0	225.4
40°	801.9	454.9	263.2	240.1	242.7	255.9	260.6	242.7	217.5	210.6	208.5
42.5°	881.5	442.3	245.9	230.1	238.0	248.5	248.5	216.4	207.0	203.3	202.7
45°	980.4	433.4	230.6	221.7	231.2	233.8	225.4	202.7	195.9	194.9	195.4
47.5°	1028.9	416.0	214.8	211.7	218.5	219.1	197.0	191.7	185.9	184.3	183.3
50°	1021.5	384.9	194.3	198.5	208.0	202.7	179.6	180.6	175.3	174.8	172.2
52.5°	969.8	335.9	173.8	183.8	194.3	179.0	165.3	164.2	164.2	157.4	154.8
55°	859.8	270.6	149.0	161.6	174.3	150.6	146.9	145.8	143.2	136.9	135.3
57.5°	680.8	198.5	112.2	125.8	147.9	127.9	127.4	122.7	115.8	111.1	111.1
60°	404.9	114.3	70.6	76.9	98.0	103.7	115.3	113.2	101.6	94.3	92.2
62.5°	184.9	59.0	44.7	45.8	52.6	67.4	90.6	104.8	88.5	75.9	74.8
65°	62.1	43.7	36.8	35.2	36.3	40.5	54.2	74.3	70.6	58.4	56.3
67.5°	37.9	38.9	34.7	32.1	32.1	31.6	31.0	33.7	41.6	40.5	41.0
70°	32.6	35.8	32.1	28.9	27.9	26.3	22.1	18.4	15.8	18.4	19.5
72.5°	26.3	28.4	27.4	24.7	22.1	20.0	15.8	12.1	8.9	7.9	7.9
75°	19.5	21.0	22.1	18.9	16.8	14.2	11.6	7.9	4.7	3.2	3.2
77.5°	14.2	15.8	16.3	14.7	12.6	10.0	7.4	5.3	2.6	1.1	1.1
80°	12.1	14.2	15.8	14.7	13.2	9.5	6.8	3.7	2.1	0.5	0.5
82.5°	11.6	14.2	15.8	14.2	12.6	8.9	6.8	4.2	1.6	0.5	0.5
85°	2.6	3.7	4.7	5.8	6.8	6.8	5.3	3.2	1.6	0.5	0.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5	0.5	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)