

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: P526707

Luminaire Tested: **GALN-SA1C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526707
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-SA1C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 3739 lumens
Efficiency: N/A
Efficacy: 65.6 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): 57
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

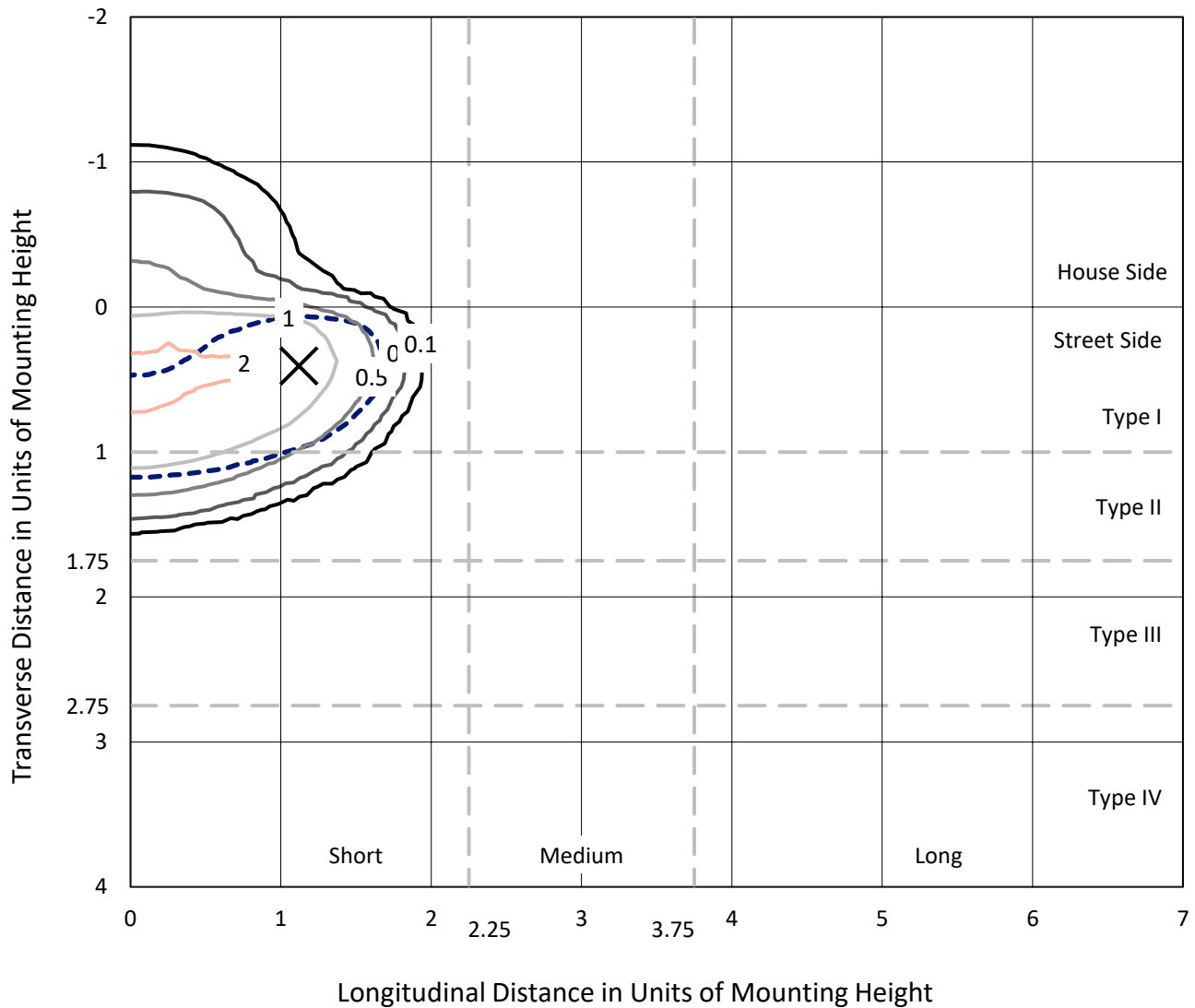


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

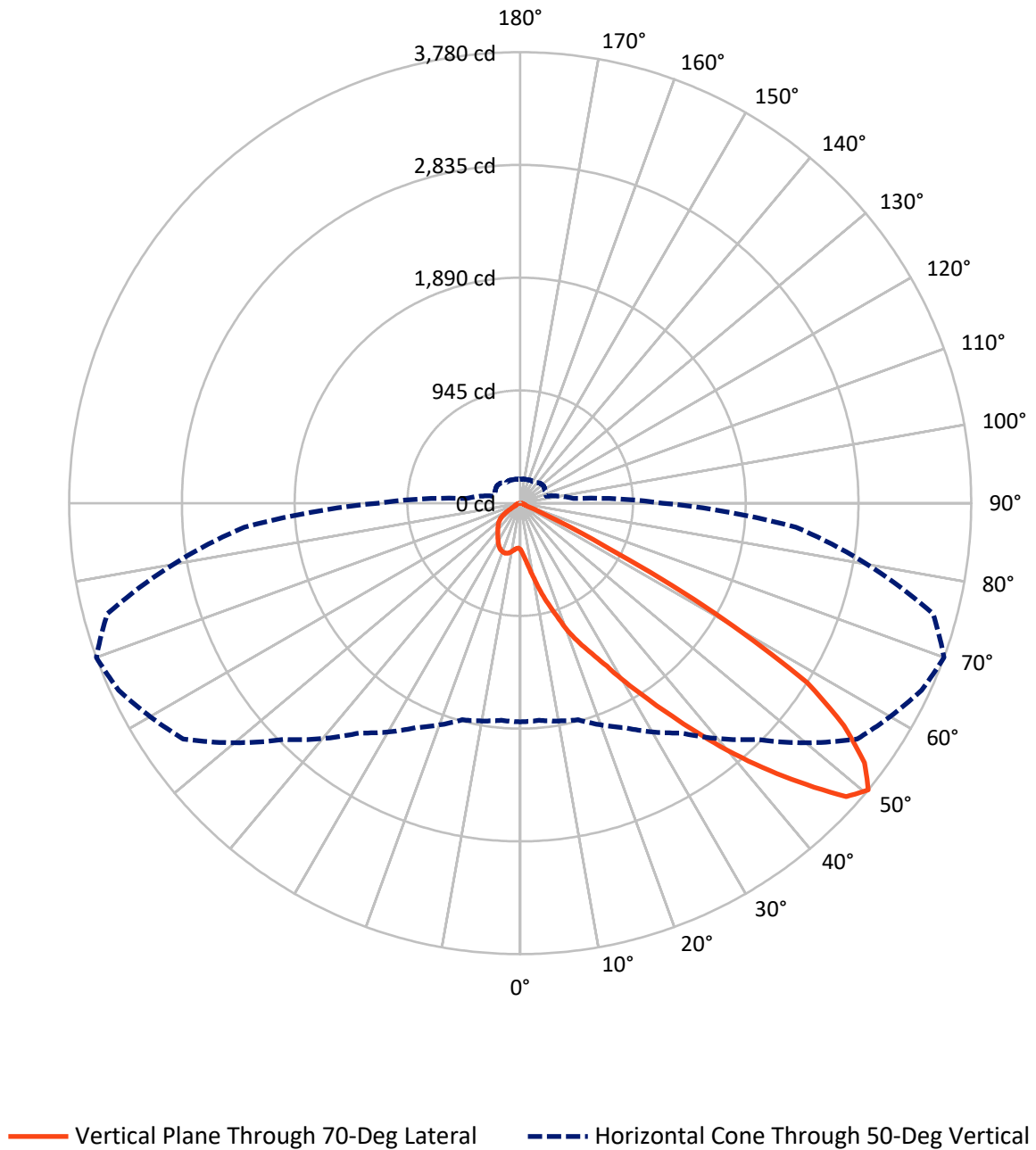


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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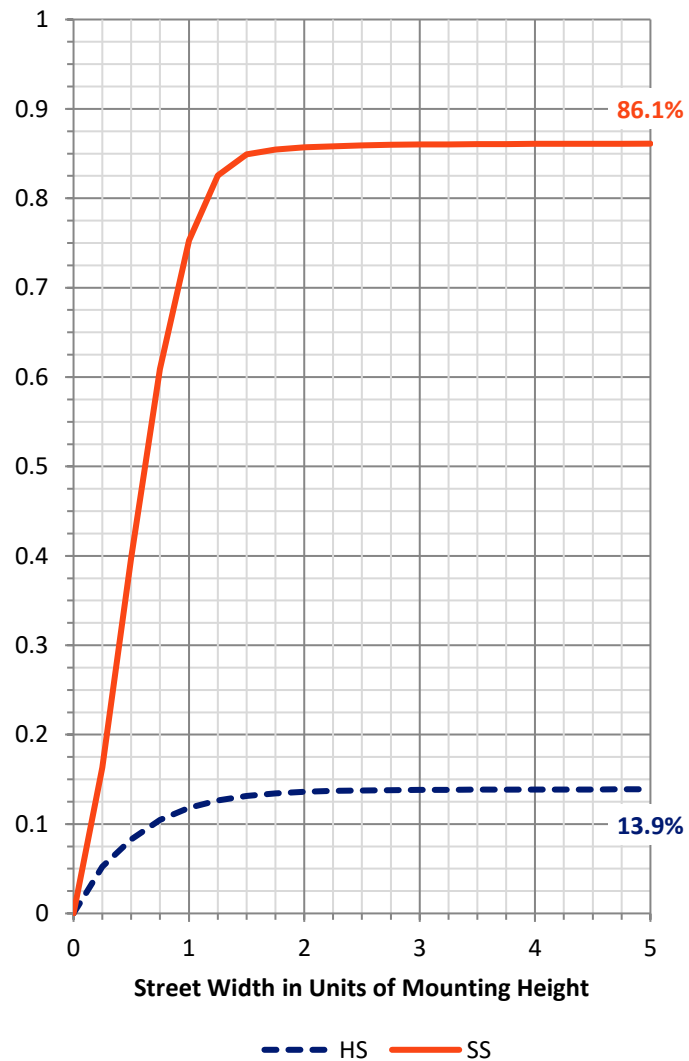
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.2	0.0	522.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3216.8	0.0	3216.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	3739.0	0.0	3739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.3
10°-20°	217.8	5.8
20°-30°	457.0	12.2
30°-40°	787.7	21.1
40°-50°	1151.2	30.8
50°-60°	896.6	24.0
60°-70°	151.9	4.1
70°-80°	20.9	0.6
80°-90°	5.4	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°	3739.0	100.0
0°-180°	3739.0	100.0

Coefficient of Utilization



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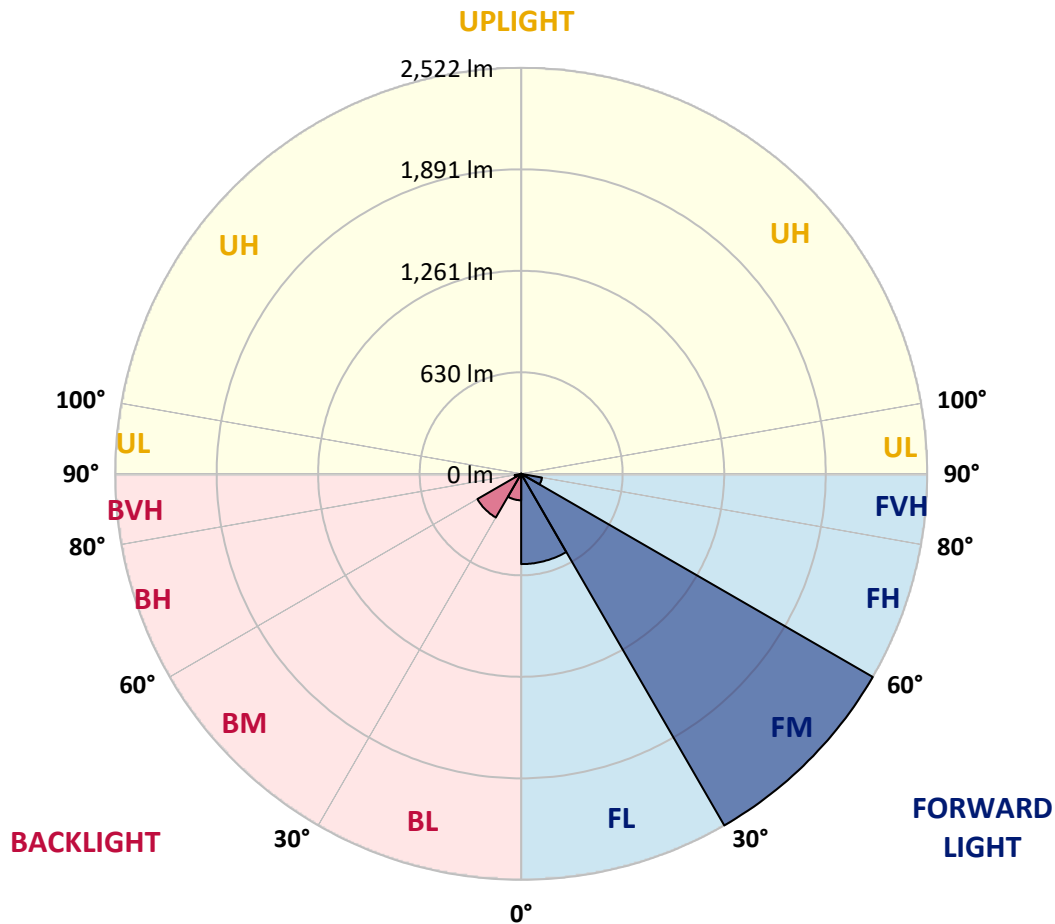
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.9	15.0			
FM	(30°-60°)	2521.9	67.4			
FH	(60°-80°)	131.5	3.5			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	164.3	4.4	B1/500		
BM	(30°-60°)	313.7	8.4	B1/1000		
BH	(60°-80°)	41.2	1.1	B0/110		G0/110
BVH	(80°-90°)	2.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3
2.5°	507.2	503.5	495.5	480.7	474.6	459.8	451.2	434.6	424.2	412.5	399.6
5°	714.3	695.3	683.6	667.0	618.4	588.3	538.5	496.1	476.4	454.9	425.4
7.5°	928.3	916.0	900.0	864.3	831.1	768.4	683.0	589.5	549.6	512.7	454.3
10°	1105.3	1070.9	1069.0	1042.6	1006.3	931.3	828.7	712.5	641.2	587.1	495.5
12.5°	1228.9	1197.5	1211.7	1208.6	1174.8	1105.9	987.3	833.6	759.2	675.0	537.9
15°	1341.4	1328.5	1324.2	1320.5	1306.9	1255.9	1149.6	981.1	873.5	772.1	585.8
17.5°	1451.4	1418.2	1434.2	1437.3	1436.0	1389.9	1290.3	1121.3	994.7	874.8	636.3
20°	1549.1	1552.2	1530.7	1526.4	1522.7	1520.9	1423.7	1260.2	1143.4	982.4	702.0
22.5°	1674.6	1653.0	1672.1	1659.8	1635.8	1621.1	1546.7	1383.2	1272.5	1112.1	769.0
25°	1822.7	1839.9	1795.0	1790.1	1763.7	1712.7	1645.7	1520.9	1396.7	1232.6	841.6
27.5°	2005.3	1975.2	1963.5	1936.4	1888.5	1867.0	1788.3	1662.9	1546.7	1359.2	911.7
30°	2162.0	2154.1	2095.7	2063.7	2021.9	2021.3	1911.2	1855.3	1742.2	1557.8	1008.2
32.5°	2289.9	2254.9	2233.4	2211.2	2177.4	2186.6	2093.8	2064.3	1950.6	1742.2	1121.9
35°	2375.4	2350.2	2337.2	2303.4	2293.6	2334.8	2296.1	2283.8	2190.3	2001.6	1255.3
37.5°	2402.4	2410.4	2407.9	2365.5	2386.4	2497.7	2547.5	2515.5	2466.3	2275.2	1399.8
40°	2426.4	2431.9	2419.6	2469.4	2529.0	2655.7	2835.8	2782.9	2764.5	2552.4	1600.8
42.5°	2439.9	2435.6	2435.6	2521.7	2612.0	2866.5	3114.3	3079.2	3065.1	2847.5	1833.2
45°	2381.5	2339.7	2384.6	2501.4	2683.3	2970.4	3336.8	3385.4	3365.1	3198.5	2104.9
47.5°	2163.3	2189.1	2214.3	2370.4	2596.7	2938.5	3473.3	3638.7	3676.2	3493.6	2283.1
50°	1833.2	1827.6	1879.9	2076.6	2351.4	2800.8	3446.9	3711.8	3780.0	3582.1	2320.6
52.5°	1333.4	1373.9	1430.5	1626.0	1951.8	2444.2	3105.7	3523.1	3614.1	3473.3	2296.1
55°	776.4	731.5	858.8	1024.2	1331.5	1843.6	2625.6	3122.9	3291.3	3275.3	2171.9
57.5°	311.1	301.2	344.9	464.7	694.7	1142.8	1909.4	2565.9	2835.8	2999.9	1908.8
60°	136.5	133.4	156.8	189.3	284.0	526.8	1044.4	1595.9	1877.4	2096.3	1313.7
62.5°	98.4	97.1	108.8	120.5	150.0	229.3	438.9	643.0	801.6	968.2	588.3
65°	79.3	82.4	90.4	96.5	110.7	127.3	154.9	178.9	219.5	227.5	129.7
67.5°	64.5	67.0	74.4	81.1	83.6	68.9	71.3	62.7	62.7	55.9	44.9
70°	47.3	47.9	56.6	64.5	51.6	27.7	48.6	48.6	43.6	41.8	38.1
72.5°	35.0	35.7	42.4	40.0	20.3	17.2	35.7	39.3	35.7	33.8	30.7
75°	25.8	26.4	22.1	9.2	8.6	11.1	20.9	27.0	25.8	25.2	23.4
77.5°	4.9	3.7	3.1	4.3	6.1	9.2	13.5	16.6	17.2	18.4	17.2
80°	0.6	0.6	1.8	3.7	6.8	9.8	14.1	16.0	16.6	17.2	16.0
82.5°	0.0	0.6	1.8	3.7	6.8	9.2	12.3	14.1	15.4	16.0	15.4
85°	0.0	0.6	1.2	3.1	5.5	6.8	6.1	4.3	3.7	4.3	3.1
87.5°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3	387.3
2.5°	392.2	389.7	381.1	371.9	363.9	367.6	363.9	360.9	362.1	360.9	359.6
5°	413.7	402.7	384.2	376.2	369.5	368.8	367.0	366.4	367.0	367.0	361.5
7.5°	434.0	416.2	396.5	387.9	379.9	380.5	376.2	376.2	375.6	372.5	371.3
10°	464.7	440.8	415.6	400.2	390.4	388.5	384.2	379.9	379.9	379.9	373.8
12.5°	498.6	468.4	434.0	416.2	404.5	395.3	388.5	387.3	380.5	379.3	376.2
15°	528.1	489.9	446.3	421.7	407.0	394.7	384.2	377.5	374.4	372.5	370.1
17.5°	557.0	508.4	453.1	421.7	405.7	391.6	380.5	374.4	367.0	368.2	363.3
20°	595.7	528.1	454.9	413.7	394.0	380.5	365.8	362.7	358.4	354.7	355.9
22.5°	633.2	542.2	449.4	403.9	375.6	359.6	352.2	348.6	346.7	343.6	339.3
25°	667.0	557.6	440.8	386.1	355.9	344.3	337.5	336.9	332.6	332.6	324.6
27.5°	701.4	563.1	426.0	365.2	338.7	332.0	328.9	327.7	325.8	321.5	316.0
30°	740.8	564.9	404.5	343.6	323.4	316.0	320.3	323.4	315.4	307.4	309.8
32.5°	773.3	560.6	378.7	323.4	312.3	308.6	317.2	320.3	311.1	302.5	298.1
35°	812.7	550.2	353.5	307.4	301.2	308.6	316.0	316.0	297.5	287.1	284.6
37.5°	872.3	538.5	330.1	293.8	289.5	304.9	314.7	308.0	279.1	266.2	263.1
40°	936.3	531.1	307.4	280.3	283.4	298.8	304.3	283.4	253.9	245.9	243.4
42.5°	1029.1	516.4	287.1	268.6	277.9	290.2	290.2	252.7	241.6	237.3	236.7
45°	1144.6	505.9	269.3	258.8	269.9	272.9	263.1	236.7	228.7	227.5	228.1
47.5°	1201.2	485.6	250.8	247.1	255.1	255.7	229.9	223.8	217.0	215.2	213.9
50°	1192.6	449.4	226.8	231.8	242.8	236.7	209.6	210.9	204.7	204.1	201.0
52.5°	1132.4	392.2	202.9	214.5	226.8	209.0	193.0	191.8	191.8	183.8	180.7
55°	1003.9	316.0	174.0	188.7	203.5	175.8	171.5	170.3	167.2	159.8	158.0
57.5°	794.9	231.8	130.9	146.9	172.7	149.4	148.8	143.2	135.2	129.7	129.7
60°	472.7	133.4	82.4	89.8	114.3	121.1	134.6	132.2	118.6	110.0	107.6
62.5°	215.8	68.9	52.3	53.5	61.5	78.7	105.7	122.3	103.3	88.5	87.3
65°	72.5	51.0	43.0	41.2	42.4	47.3	63.3	86.7	82.4	68.2	65.8
67.5°	44.3	45.5	40.6	37.5	37.5	36.9	36.3	39.3	48.6	47.3	47.9
70°	38.1	41.8	37.5	33.8	32.6	30.7	25.8	21.5	18.4	21.5	22.7
72.5°	30.7	33.2	32.0	28.9	25.8	23.4	18.4	14.1	10.5	9.2	9.2
75°	22.7	24.6	25.8	22.1	19.7	16.6	13.5	9.2	5.5	3.7	3.7
77.5°	16.6	18.4	19.1	17.2	14.8	11.7	8.6	6.1	3.1	1.2	1.2
80°	14.1	16.6	18.4	17.2	15.4	11.1	8.0	4.3	2.5	0.6	0.6
82.5°	13.5	16.6	18.4	16.6	14.8	10.5	8.0	4.9	1.8	0.6	0.6
85°	3.1	4.3	5.5	6.8	8.0	8.0	6.1	3.7	1.8	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	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)