

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: P651694

Luminaire Tested: **GALN-SA1A-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3966.2 lumens
Efficiency: N/A
Efficacy: 120.2 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

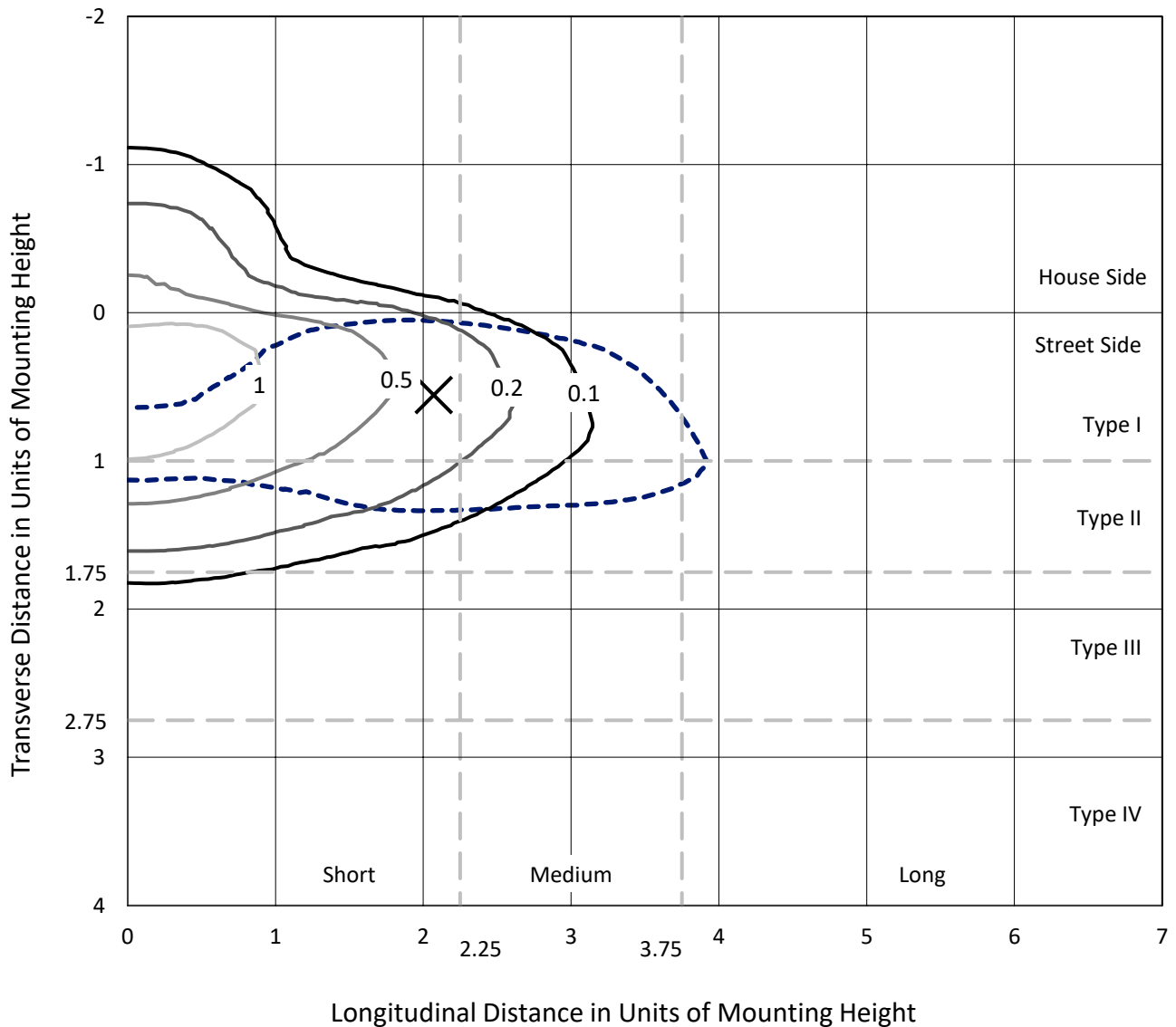
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

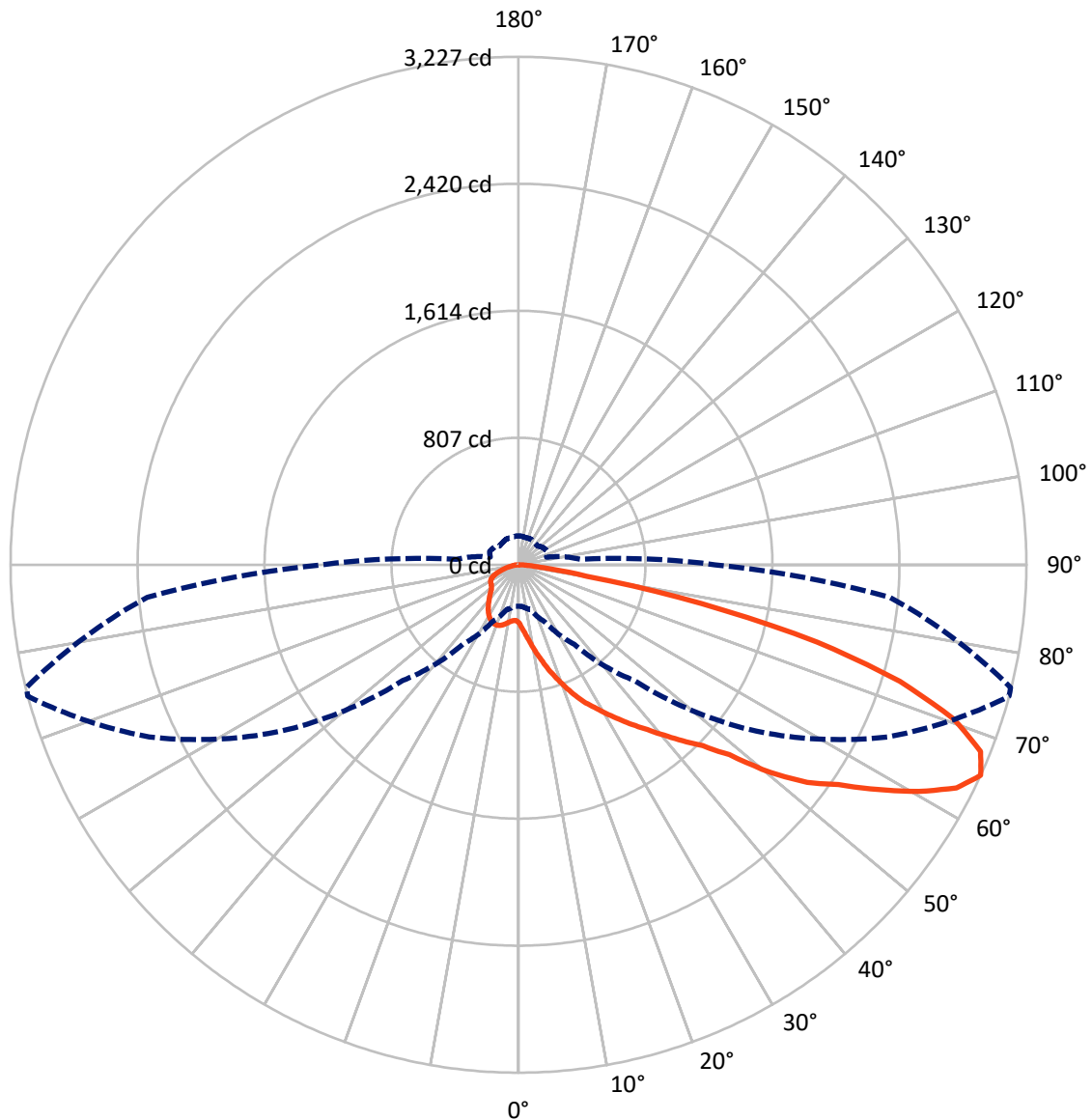
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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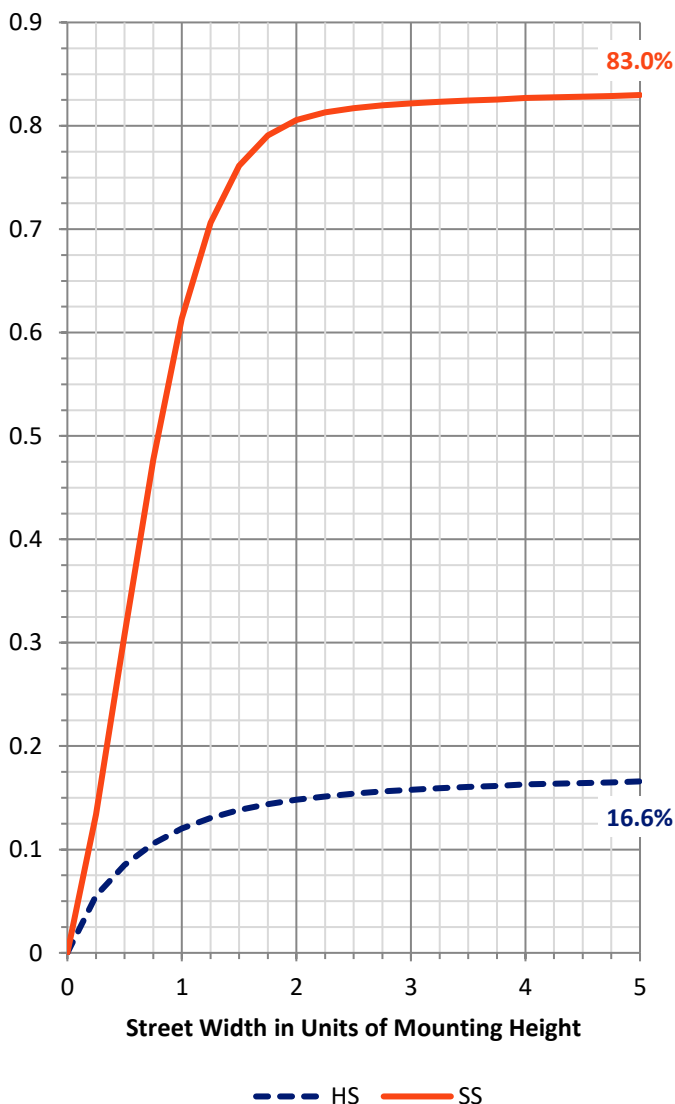
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.8	0.0	666.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3299.4	0.0	3299.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	3966.2	0.0	3966.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.1
10°-20°	175.4	4.4
20°-30°	338.8	8.5
30°-40°	550.2	13.9
40°-50°	756.9	19.1
50°-60°	893.6	22.5
60°-70°	783.0	19.7
70°-80°	373.8	9.4
80°-90°	49.7	1.3
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°	3966.2	100.0
0°-180°	3966.2	100.0

Coefficient of Utilization

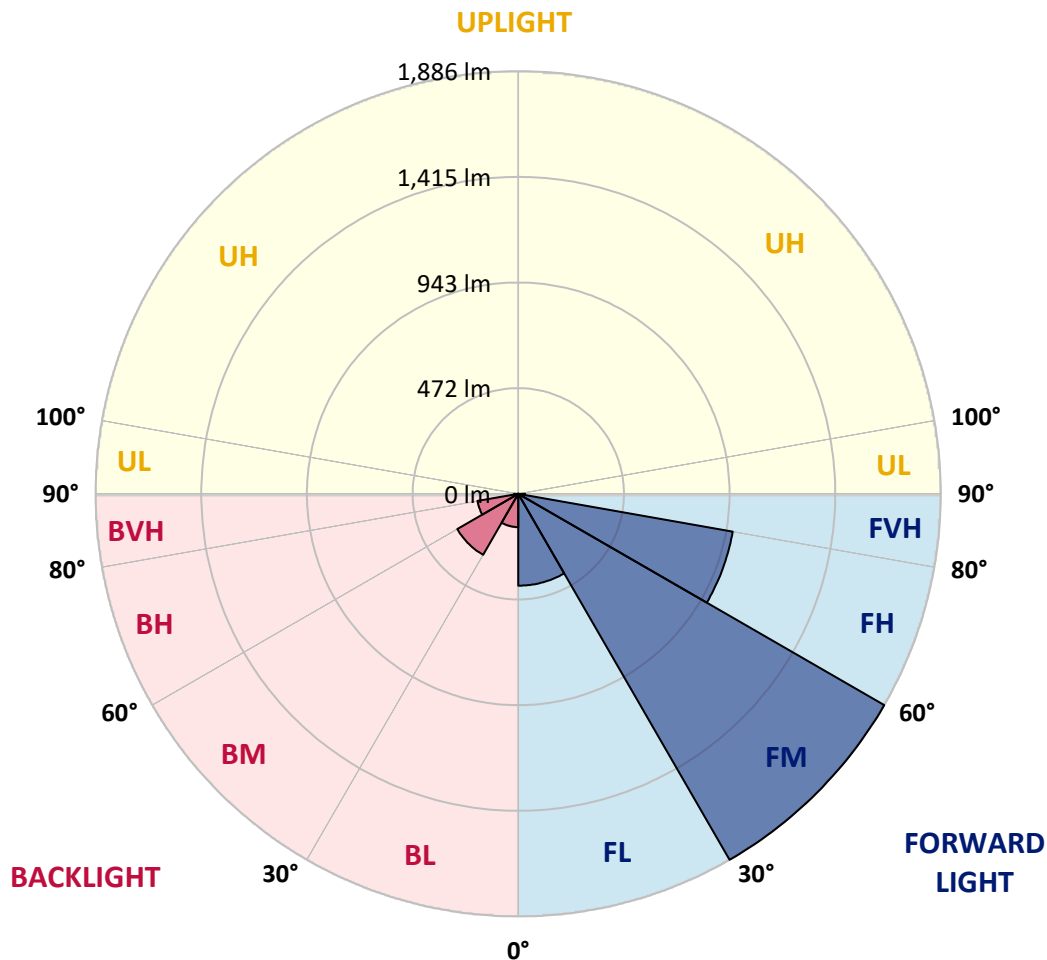


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	10.3			
FM (30°-60°)	1886.4	47.6			
FH (60°-80°)	971.9	24.5			G1/1800
FVH (80°-90°)	31.1	0.8			G1/100
BL (0°-30°)	148.9	3.8	B1/500		
BM (30°-60°)	314.4	7.9	B1/1000		
BH (60°-80°)	184.9	4.7	B1/500		G1/500
BVH (80°-90°)	18.7	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5
2.5°	489.6	486.4	483.0	473.5	463.4	452.0	435.6	419.9	399.1	398.4	382.9
5°	625.4	623.2	608.0	599.1	575.7	544.5	518.1	476.9	438.8	434.3	404.2
7.5°	750.2	741.8	736.0	720.0	696.8	656.7	605.6	550.1	486.4	480.4	430.4
10°	844.1	843.3	840.2	826.5	809.0	769.3	712.5	632.9	546.6	534.8	462.3
12.5°	914.5	915.1	914.7	914.5	902.0	868.2	806.7	722.8	607.5	599.1	499.0
15°	960.8	967.2	969.8	980.5	981.6	959.0	906.1	809.7	676.2	663.6	538.7
17.5°	991.3	994.5	1006.6	1024.8	1039.7	1035.6	988.5	890.2	746.3	725.4	579.8
20°	1020.6	1026.1	1035.4	1060.3	1086.6	1098.6	1065.5	972.5	815.8	802.4	625.1
22.5°	1081.4	1089.3	1092.6	1105.3	1127.7	1149.0	1133.9	1051.5	891.9	873.8	673.3
25°	1184.5	1192.9	1183.8	1180.8	1188.2	1198.7	1195.4	1125.9	963.8	938.0	719.0
27.5°	1318.7	1319.8	1302.1	1285.4	1267.3	1261.9	1252.0	1192.0	1026.1	1004.7	764.7
30°	1462.8	1457.7	1428.4	1398.1	1367.6	1337.4	1309.0	1255.7	1095.7	1070.8	809.7
32.5°	1596.6	1593.9	1561.4	1514.2	1462.6	1434.2	1376.8	1320.0	1170.1	1146.2	856.0
35°	1696.9	1701.0	1665.3	1613.9	1557.5	1532.3	1459.8	1387.6	1247.0	1221.0	906.3
37.5°	1768.1	1765.9	1734.3	1689.8	1640.3	1618.3	1556.9	1461.3	1329.9	1304.9	961.3
40°	1793.5	1792.2	1768.7	1736.2	1704.9	1697.1	1658.4	1541.0	1424.7	1395.5	1027.6
42.5°	1777.4	1780.1	1764.7	1755.8	1750.0	1755.6	1759.3	1645.2	1528.3	1501.4	1099.5
45°	1727.8	1726.4	1724.2	1738.6	1771.3	1808.2	1859.1	1743.8	1640.7	1619.3	1195.9
47.5°	1639.4	1650.2	1655.6	1695.4	1766.8	1853.9	1974.0	1875.9	1804.0	1785.3	1342.8
50°	1515.7	1524.4	1556.2	1627.0	1733.5	1871.1	2086.3	2091.8	2076.3	2041.3	1502.4
52.5°	1322.6	1335.9	1401.5	1531.2	1665.0	1864.1	2154.2	2277.1	2297.5	2271.3	1659.7
55°	1106.4	1125.1	1194.4	1364.5	1570.8	1825.3	2201.1	2384.4	2466.0	2441.7	1811.1
57.5°	894.7	914.5	985.7	1150.5	1406.5	1739.7	2231.9	2504.0	2695.2	2663.6	1999.6
60°	670.5	691.2	752.3	922.0	1172.4	1572.3	2211.1	2607.7	2924.4	2910.9	2188.2
62.5°	432.6	455.4	508.6	649.0	901.1	1343.7	2099.4	2665.0	3122.7	3106.4	2326.0
65°	263.5	266.1	295.4	402.9	616.8	1040.3	1844.1	2589.0	3227.3	3222.3	2367.8
67.5°	170.4	174.4	187.8	241.4	369.8	722.6	1474.4	2338.4	3166.2	3164.4	2281.1
70°	143.9	145.2	151.2	162.8	214.9	438.2	1035.4	1938.9	2934.1	2934.1	2072.7
72.5°	128.7	130.4	132.5	136.2	153.4	248.3	617.8	1509.3	2533.3	2550.1	1764.2
75°	116.8	116.4	117.7	118.3	130.8	162.2	319.5	1116.3	1959.8	1926.2	1277.6
77.5°	100.0	100.7	100.0	102.9	115.6	123.5	162.2	749.1	1187.7	1144.3	641.3
80°	82.2	83.3	84.4	86.0	98.7	93.8	97.5	341.4	439.3	430.0	198.1
82.5°	61.7	63.2	64.9	69.0	77.6	62.0	61.6	145.8	158.5	145.2	72.9
85°	25.0	29.4	44.5	48.6	48.9	34.0	37.8	60.9	64.8	63.2	28.6
87.5°	5.8	6.9	14.4	21.7	20.0	12.7	14.0	19.8	22.6	20.9	9.7
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°	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5
2.5°	375.8	368.3	355.4	345.5	338.4	332.1	328.2	325.9	325.0	324.8	325.0
5°	388.5	375.2	354.7	341.9	334.7	330.7	328.2	328.1	328.2	328.5	327.8
7.5°	406.0	386.8	360.1	348.1	342.7	339.7	338.6	338.2	338.4	338.2	338.2
10°	429.2	402.9	370.6	358.2	353.6	350.2	348.5	347.4	346.6	345.7	345.3
12.5°	454.7	420.8	382.1	370.0	363.6	358.2	354.3	351.5	349.6	347.7	347.2
15°	483.4	439.7	394.8	377.9	368.7	360.8	354.1	349.6	346.2	343.3	343.1
17.5°	510.7	457.6	403.3	381.6	368.1	356.9	348.1	341.9	337.5	333.9	333.5
20°	539.9	474.6	407.2	379.3	361.6	348.1	336.5	328.9	324.0	319.9	319.2
22.5°	569.4	489.0	406.8	371.7	350.4	334.5	322.3	314.3	308.5	304.4	302.9
25°	597.6	500.6	401.4	359.7	335.0	318.4	305.9	298.6	293.4	288.5	288.5
27.5°	623.0	507.5	391.3	345.1	319.0	301.6	291.7	285.0	280.3	277.1	275.2
30°	648.0	510.7	377.5	326.6	302.3	287.4	279.5	275.6	271.3	267.6	267.2
32.5°	670.4	510.1	360.4	308.5	286.4	275.8	272.6	269.5	265.0	259.9	258.6
35°	692.1	505.8	339.9	288.7	273.0	268.9	269.8	265.5	257.3	250.9	249.8
37.5°	715.7	498.0	317.6	272.6	261.8	265.7	267.9	258.4	245.0	234.9	232.5
40°	743.0	489.2	294.3	256.4	253.0	262.6	262.6	245.2	227.0	220.7	219.0
42.5°	775.1	481.9	274.9	242.9	245.7	255.3	254.2	227.8	220.3	217.1	216.2
45°	825.9	479.3	254.9	231.0	239.7	246.7	237.9	221.8	217.5	214.9	214.0
47.5°	906.1	482.3	237.2	222.2	232.8	238.2	219.7	217.7	214.7	211.0	210.6
50°	980.5	479.5	224.8	217.3	226.7	227.8	212.1	212.8	211.0	207.0	206.1
52.5°	1041.4	470.7	216.8	214.7	221.6	209.7	205.0	207.4	206.7	201.6	200.7
55°	1108.4	465.3	212.9	214.7	218.2	194.0	198.3	201.8	200.9	197.3	197.0
57.5°	1189.4	466.4	210.2	215.4	214.7	186.1	191.7	195.8	195.5	194.4	194.4
60°	1272.4	466.8	205.9	215.1	210.6	179.8	184.8	190.6	191.0	191.7	191.7
62.5°	1300.0	448.1	197.5	211.3	201.6	173.8	178.4	186.3	185.9	187.6	187.8
65°	1248.5	396.3	185.0	202.4	190.0	169.5	173.4	180.7	178.4	182.8	183.7
67.5°	1136.5	327.8	165.7	186.5	177.0	165.0	170.1	173.0	168.6	177.5	177.7
70°	982.3	256.0	141.1	163.9	162.4	160.3	167.6	163.2	157.3	168.0	165.8
72.5°	821.3	195.5	112.7	134.1	142.8	153.1	163.1	150.8	142.4	145.7	141.8
75°	617.0	144.6	90.6	105.0	119.0	143.1	158.9	135.7	122.9	119.8	119.0
77.5°	314.5	94.4	67.8	78.5	89.3	129.3	153.4	118.1	101.8	97.1	94.9
80°	112.3	58.7	47.8	54.2	60.2	111.2	134.1	97.6	79.0	78.1	79.0
82.5°	52.1	37.8	32.0	35.5	35.7	74.2	102.2	72.9	60.0	91.2	77.0
85°	22.4	18.9	18.1	17.7	16.3	33.1	57.4	39.2	61.1	27.3	25.1
87.5°	6.6	7.6	6.6	5.0	3.6	3.6	5.8	2.2	1.5	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

(END OF REPORT)