

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: P647732

Luminaire Tested: **GALN-SA1A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647732
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-SA1A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA 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: 3183.7 lumens
Efficiency: N/A
Efficacy: 96.5 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

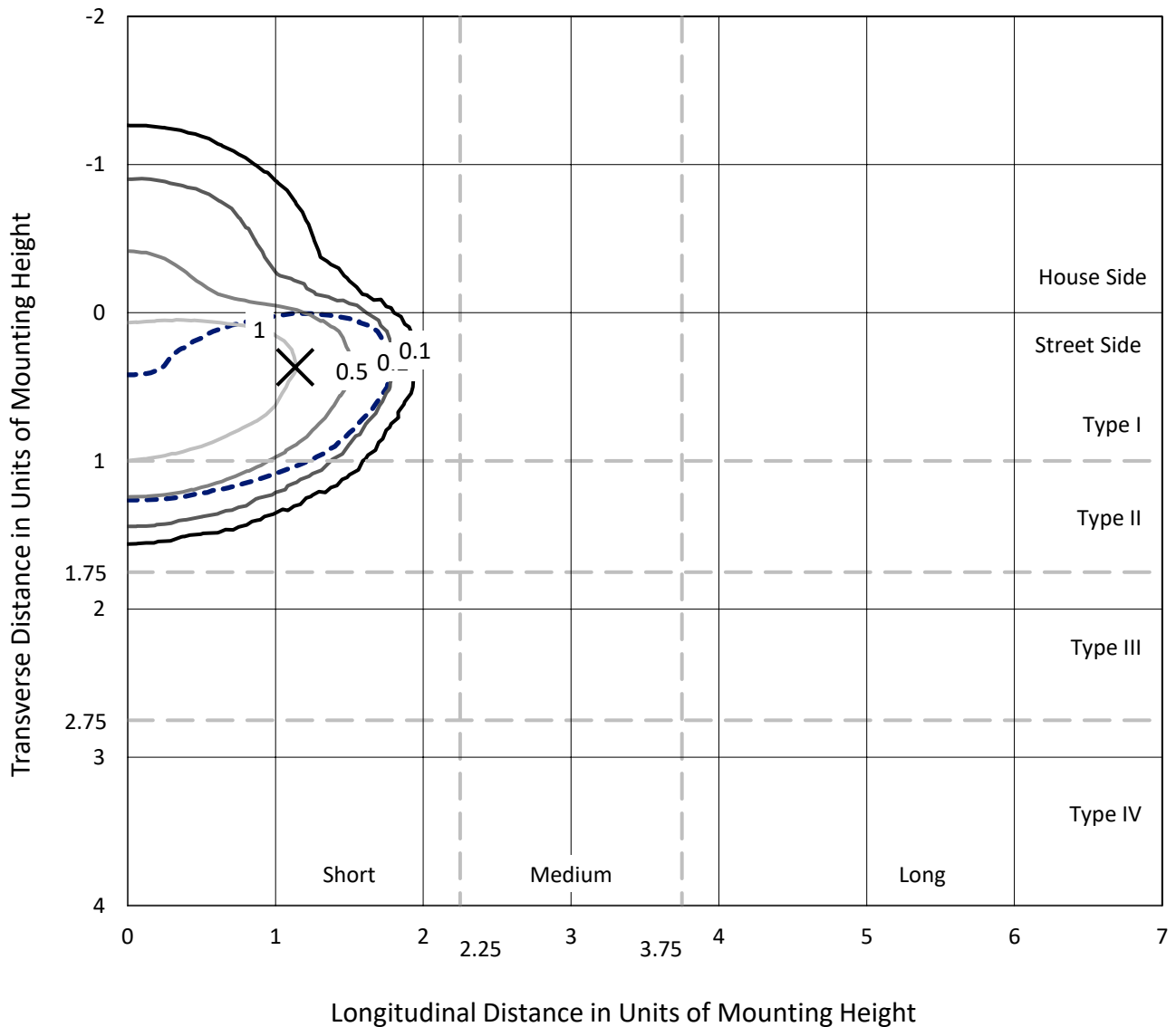
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

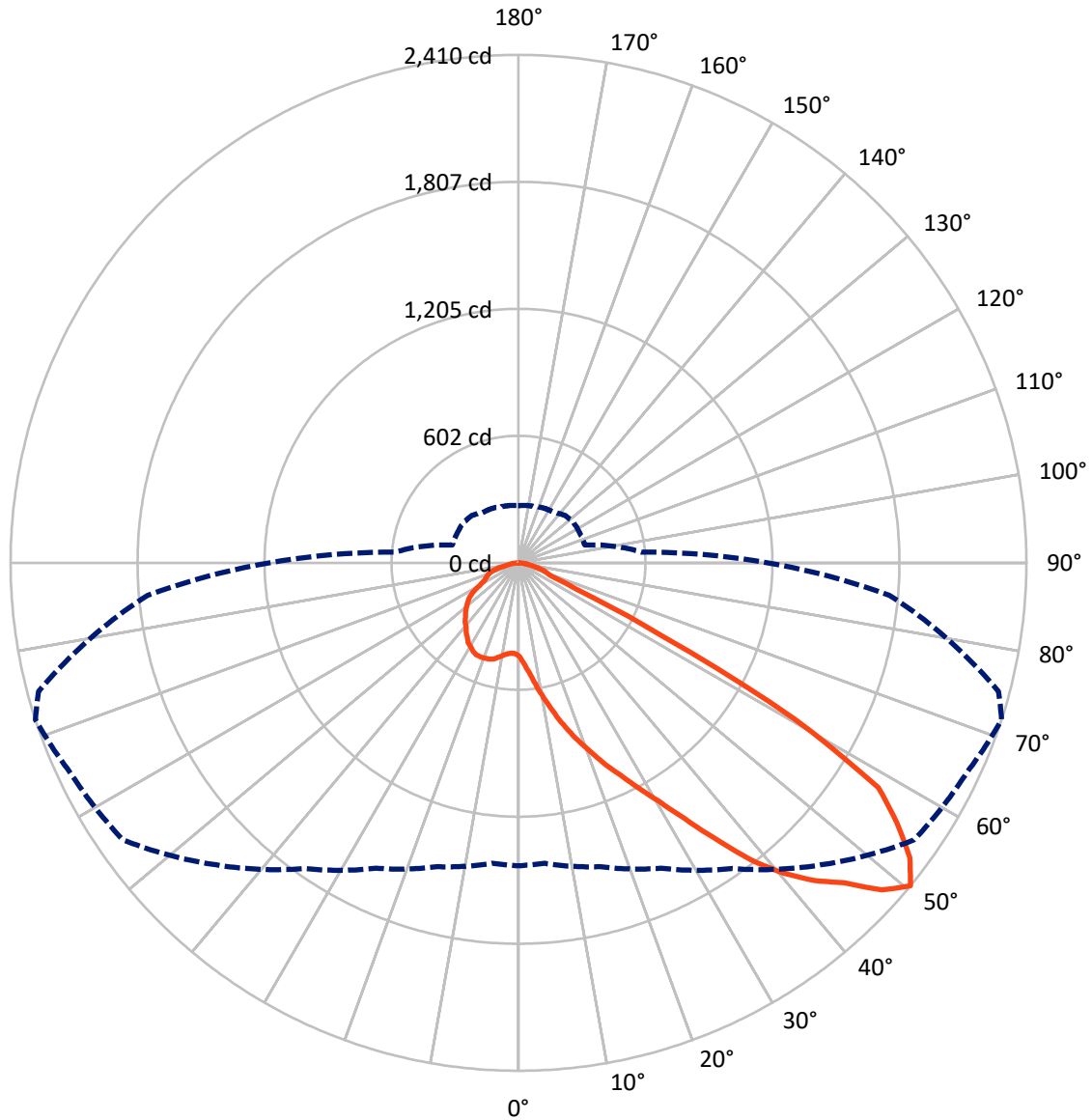
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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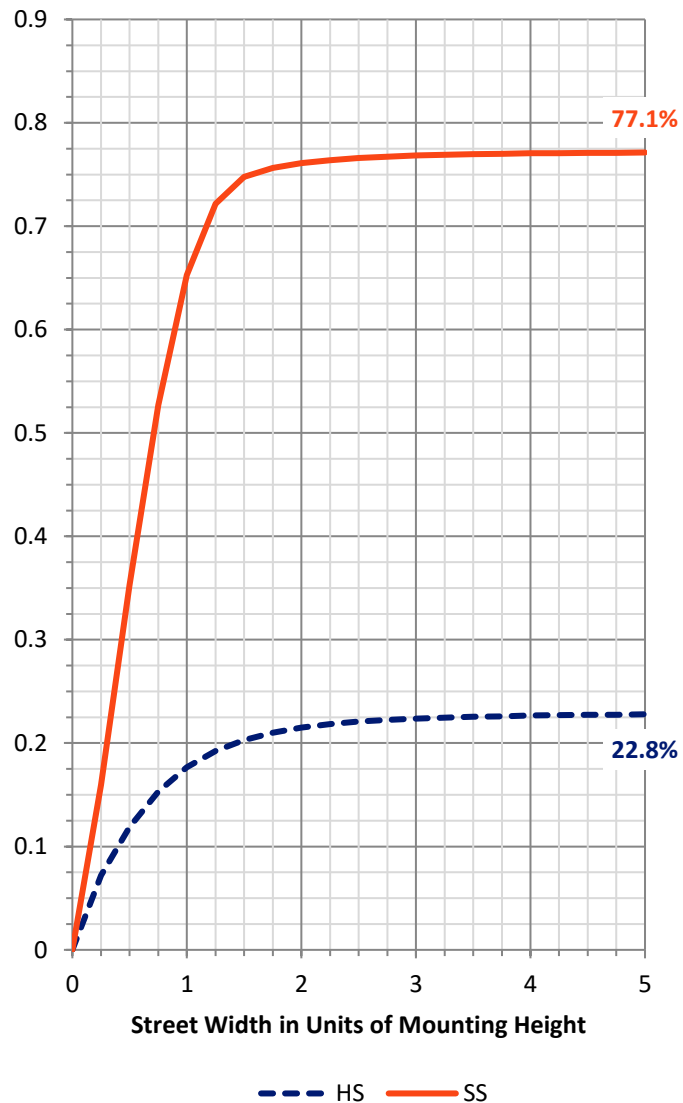
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	729.4	0.0	729.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2454.3	0.0	2454.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	3183.7	0.0	3183.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.6
10°-20°	194.9	6.1
20°-30°	377.9	11.9
30°-40°	626.0	19.7
40°-50°	875.9	27.5
50°-60°	738.9	23.2
60°-70°	225.2	7.1
70°-80°	79.0	2.5
80°-90°	13.7	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°	3183.7	100.0
0°-180°	3183.7	100.0

Coefficient of Utilization

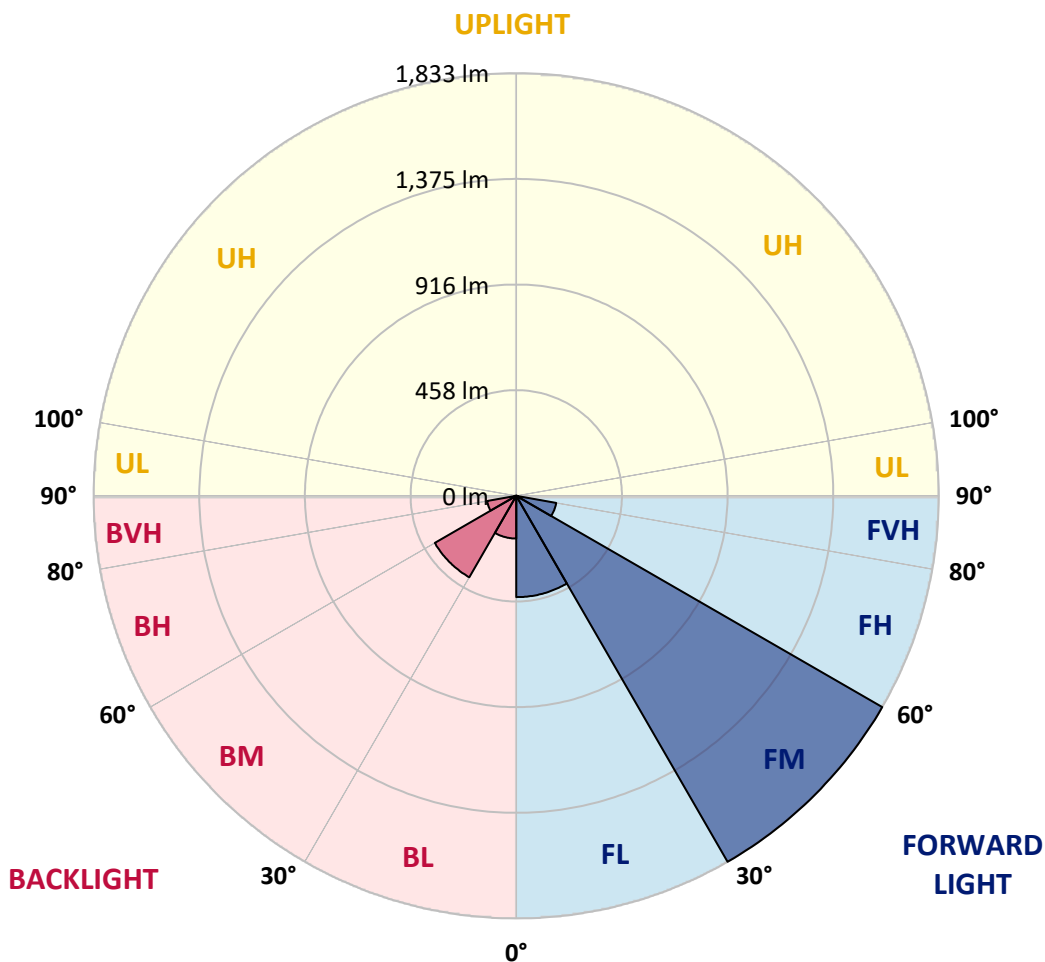


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.5	13.8			
FM (30°-60°)	1832.9	57.6			
FH (60°-80°)	175.7	5.5			G0/660
FVH (80°-90°)	6.2	0.2			G0/10
BL (0°-30°)	185.4	5.8	B1/500		
BM (30°-60°)	407.9	12.8	B1/1000		
BH (60°-80°)	128.5	4.0	B1/500		G1/500
BVH (80°-90°)	7.6	0.2			G0/10
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°	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2
2.5°	570.0	566.5	555.9	552.3	539.7	516.9	509.0	485.8	475.9	466.8	456.2
5°	720.9	704.4	703.2	683.1	654.0	637.0	586.6	552.7	521.6	505.8	476.7
7.5°	817.1	817.5	817.5	800.9	777.7	734.7	689.4	628.4	581.5	558.2	508.6
10°	908.4	900.6	896.2	894.7	878.9	837.2	788.7	713.1	648.9	621.6	532.6
12.5°	973.0	966.4	976.2	971.1	959.6	932.5	886.7	800.5	720.1	683.5	571.2
15°	1003.8	1008.5	1016.4	1030.6	1025.4	1015.2	964.8	890.3	796.9	755.6	605.5
17.5°	1051.1	1038.0	1047.5	1065.3	1079.4	1074.7	1045.9	955.3	873.0	822.2	651.6
20°	1084.1	1076.7	1081.4	1101.9	1112.5	1139.3	1124.3	1040.5	945.9	892.3	706.0
22.5°	1178.7	1167.7	1152.3	1155.5	1159.4	1178.3	1181.9	1133.8	1030.6	973.8	757.6
25°	1295.3	1285.1	1267.0	1248.4	1237.0	1233.5	1245.7	1207.1	1111.7	1053.1	813.1
27.5°	1423.7	1406.4	1395.0	1356.8	1326.0	1321.3	1315.4	1294.5	1207.9	1144.4	875.8
30°	1548.6	1534.8	1519.5	1458.4	1426.5	1421.4	1392.3	1398.1	1312.2	1241.8	946.6
32.5°	1643.2	1644.4	1609.3	1563.2	1533.3	1506.1	1495.5	1512.4	1446.2	1389.4	1025.9
35°	1719.6	1723.1	1689.6	1647.9	1615.6	1634.5	1629.8	1637.6	1606.2	1536.8	1118.0
37.5°	1794.1	1776.3	1740.5	1720.4	1703.4	1734.6	1774.7	1781.5	1787.4	1705.8	1225.2
40°	1806.3	1807.9	1787.0	1801.1	1779.8	1826.7	1920.2	1911.5	1935.5	1864.2	1341.4
42.5°	1788.9	1792.4	1800.7	1820.9	1872.1	1928.4	2067.0	2031.6	2060.8	1997.4	1454.5
45°	1760.6	1746.0	1756.3	1832.7	1921.3	2046.6	2201.4	2173.8	2164.4	2111.2	1589.2
47.5°	1625.0	1640.0	1671.9	1766.1	1899.2	2067.0	2296.8	2290.4	2318.8	2281.3	1711.7
50°	1437.1	1431.2	1492.7	1598.7	1770.4	2026.9	2291.6	2348.8	2409.8	2357.8	1766.4
52.5°	1076.3	1107.8	1160.6	1292.2	1537.2	1807.9	2179.7	2275.1	2324.7	2313.7	1722.4
55°	680.3	689.8	721.7	878.1	1098.7	1450.9	1868.5	2089.5	2178.1	2219.5	1681.8
57.5°	330.5	312.8	351.8	477.5	634.6	975.9	1441.1	1820.1	2012.7	2087.6	1593.6
60°	172.6	179.2	194.6	239.5	328.2	506.6	898.2	1212.9	1507.3	1622.3	1207.9
62.5°	143.0	145.4	155.6	178.1	218.2	291.5	458.5	591.3	768.6	872.2	687.1
65°	121.4	122.5	133.6	148.5	174.1	205.2	236.0	247.0	299.0	306.9	244.2
67.5°	101.2	102.4	114.2	128.4	145.0	153.2	161.1	160.4	166.2	163.9	163.5
70°	78.0	79.2	91.4	106.3	114.6	109.9	134.4	139.8	142.2	144.2	147.4
72.5°	56.3	58.7	68.1	78.8	74.5	85.5	110.7	118.9	122.1	123.3	127.2
75°	41.0	41.7	44.2	41.0	47.3	59.5	78.0	88.2	92.2	93.3	99.3
77.5°	18.1	18.5	18.9	23.6	30.3	37.0	46.5	54.7	60.3	61.9	63.4
80°	9.5	9.9	12.2	16.1	21.7	27.2	33.9	38.6	42.1	42.5	44.2
82.5°	5.9	6.3	8.7	11.4	15.3	20.1	24.8	28.7	31.6	31.9	32.3
85°	2.7	3.5	5.1	7.1	10.3	13.0	13.4	11.4	12.2	12.6	11.8
87.5°	0.8	1.2	1.6	1.2	1.6	1.6	2.0	2.3	2.3	2.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2
2.5°	450.3	446.8	432.9	427.8	414.4	416.8	409.7	409.4	407.7	407.3	406.9
5°	461.3	450.3	433.7	421.1	413.7	412.9	407.7	407.7	409.4	410.5	407.7
7.5°	479.4	466.8	438.9	427.0	420.3	419.1	415.6	412.9	416.4	415.2	412.1
10°	500.3	478.3	448.7	438.5	427.4	424.7	424.7	425.9	419.9	422.0	418.7
12.5°	523.6	494.0	461.3	449.5	436.5	435.0	434.1	425.5	428.6	427.0	419.1
15°	553.1	512.2	477.5	457.4	446.3	439.3	429.0	427.4	425.5	421.5	418.0
17.5°	585.0	531.8	485.0	459.8	443.2	438.1	430.2	422.0	416.0	416.8	414.1
20°	612.2	550.0	487.7	462.1	440.8	431.0	418.7	413.7	407.3	406.9	406.5
22.5°	644.5	574.4	491.6	455.8	433.7	423.5	415.2	406.1	401.8	396.3	399.1
25°	683.1	583.8	492.4	452.3	428.6	410.5	406.1	396.3	394.7	386.9	388.4
27.5°	711.1	589.0	486.2	441.2	416.8	403.0	395.1	388.1	385.3	379.4	377.8
30°	748.5	596.8	472.8	427.4	405.0	389.6	384.9	383.3	375.4	369.1	368.3
32.5°	791.1	602.0	464.1	413.3	392.8	380.9	383.3	375.8	366.0	360.5	358.9
35°	825.0	603.9	442.4	397.1	384.5	377.0	374.3	372.7	358.5	353.4	349.5
37.5°	876.6	599.6	424.3	385.7	375.4	372.7	370.3	359.7	343.5	336.1	330.5
40°	936.8	598.4	401.1	369.5	366.8	369.9	362.8	346.3	323.8	315.5	311.6
42.5°	994.7	606.7	386.5	360.9	357.3	358.5	348.7	323.8	312.8	308.0	301.8
45°	1091.7	624.1	362.5	347.5	345.9	345.1	333.2	307.2	301.0	295.0	293.9
47.5°	1179.1	612.6	347.1	333.7	335.3	330.9	305.7	297.5	290.3	284.5	282.4
50°	1184.2	585.4	325.4	323.1	323.5	315.9	291.9	286.4	277.3	273.4	270.7
52.5°	1157.4	540.9	305.3	306.1	307.2	295.0	275.0	271.1	263.6	258.1	256.4
55°	1082.2	471.5	285.6	288.8	291.9	268.6	262.4	252.5	246.6	238.7	239.1
57.5°	953.4	379.8	258.1	263.2	269.8	244.2	239.5	227.3	218.6	212.3	211.6
60°	639.0	270.2	216.7	218.6	233.6	223.4	223.0	210.8	199.0	193.4	190.3
62.5°	377.0	206.4	187.1	185.2	184.8	190.7	200.5	196.2	180.8	170.2	173.4
65°	197.4	178.4	174.1	167.4	163.5	161.9	169.4	171.4	161.1	149.7	148.9
67.5°	165.8	165.8	162.3	160.0	154.4	147.8	143.0	136.7	135.1	131.9	128.0
70°	150.9	154.8	153.6	148.1	143.4	135.9	123.7	113.5	103.6	100.1	102.4
72.5°	131.5	135.5	135.5	132.8	126.5	115.0	103.2	91.4	83.2	76.8	76.0
75°	101.2	103.2	108.0	104.8	96.5	89.4	77.2	65.0	57.2	51.2	50.0
77.5°	64.6	67.7	67.7	67.3	61.5	54.7	46.9	38.2	32.3	28.0	26.8
80°	42.9	44.9	46.5	44.9	41.0	35.9	29.9	24.0	19.7	16.1	15.3
82.5°	31.6	33.9	35.1	33.5	29.5	25.6	21.3	16.9	12.6	9.9	9.1
85°	12.2	12.6	14.2	16.9	16.5	16.1	13.0	9.5	7.1	5.1	4.7
87.5°	3.1	2.7	3.1	3.1	2.7	2.3	2.3	2.3	2.3	1.2	1.6
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)