

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: P652184

Luminaire Tested: **GALN-SA1B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.2 lumens
Efficiency: N/A
Efficacy: 92.3 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

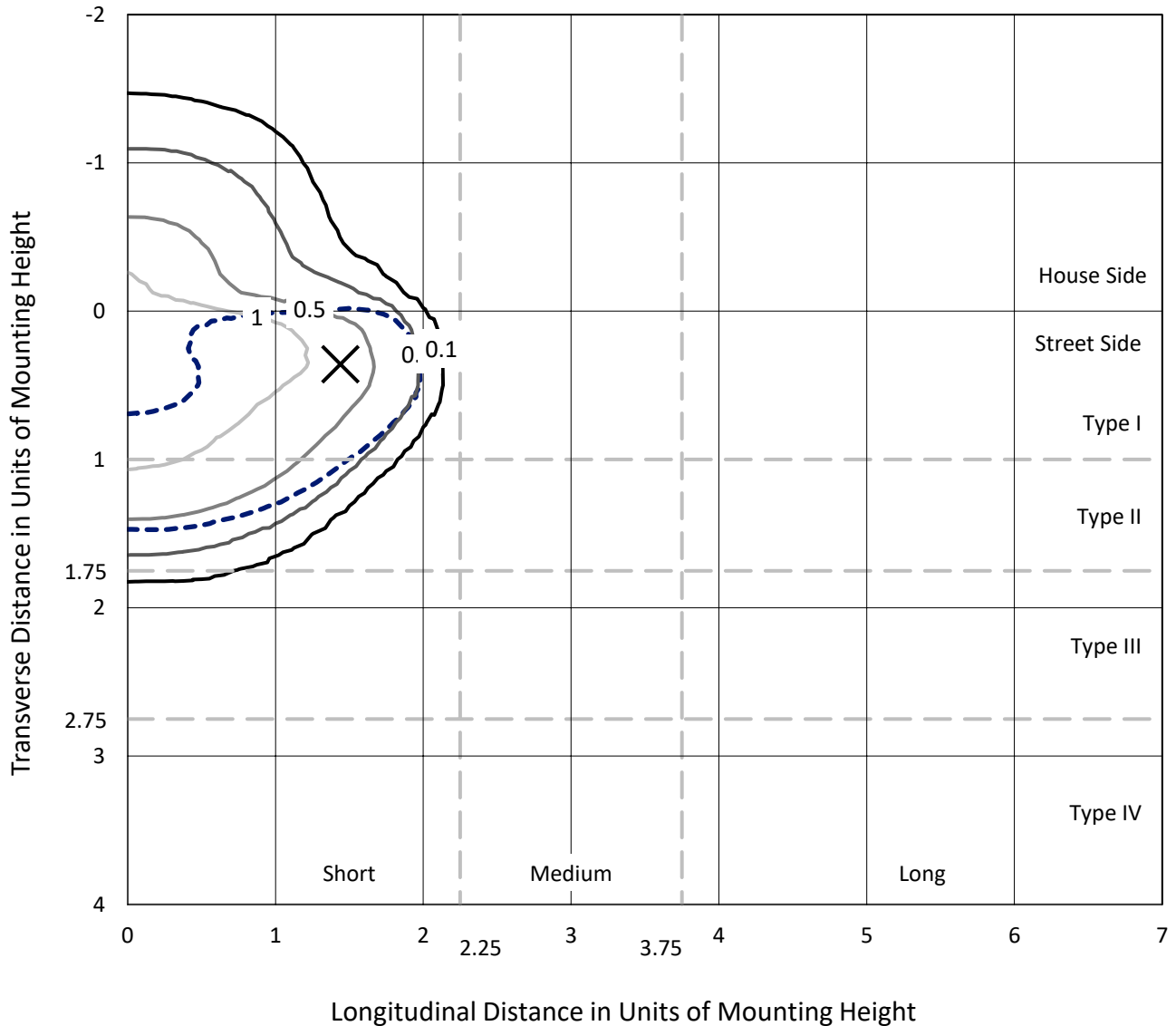
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

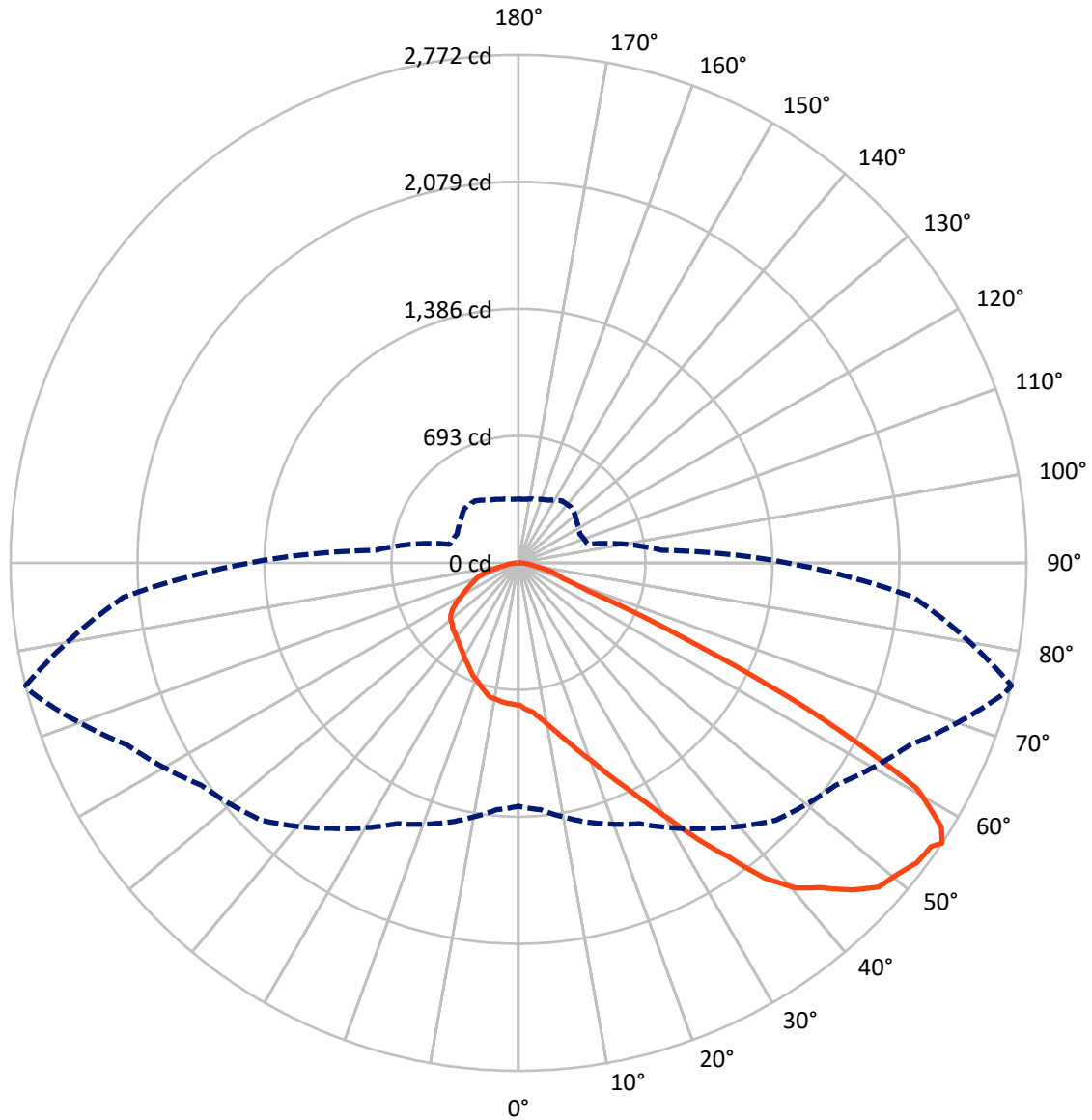
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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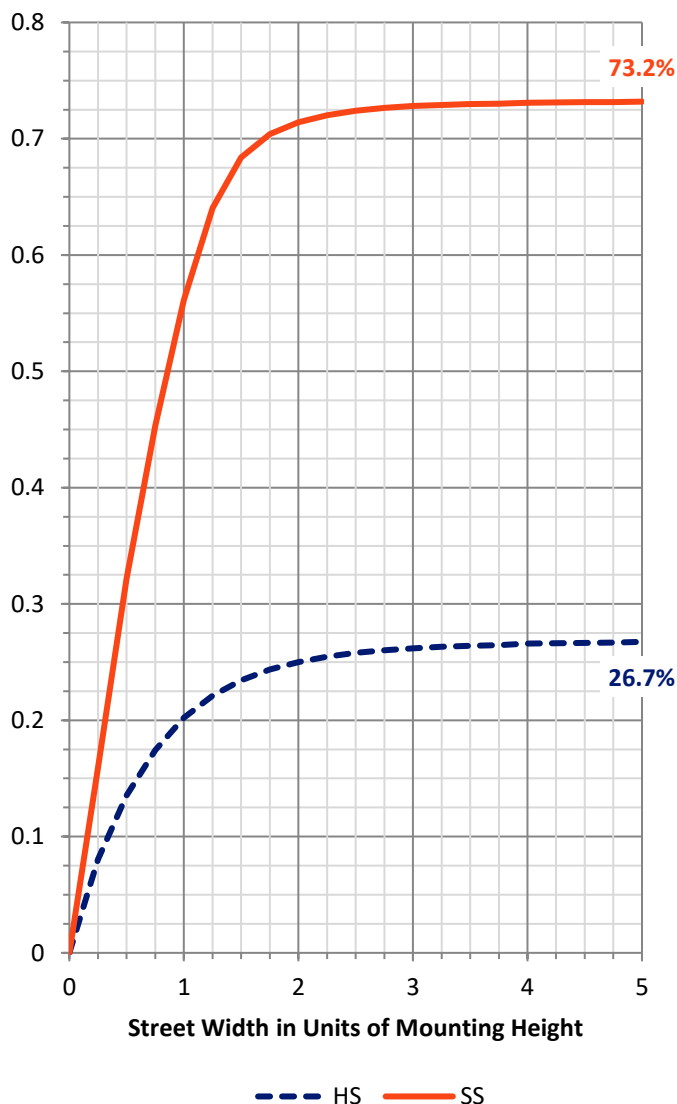
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.9	0.0	1091.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2969.3	0.0	2969.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	4061.2	0.0	4061.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.9
10°-20°	242.1	6.0
20°-30°	423.4	10.4
30°-40°	662.8	16.3
40°-50°	964.2	23.7
50°-60°	1059.8	26.1
60°-70°	473.0	11.6
70°-80°	136.6	3.4
80°-90°	22.1	0.5
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°	4061.2	100.0
0°-180°	4061.2	100.0

Coefficient of Utilization



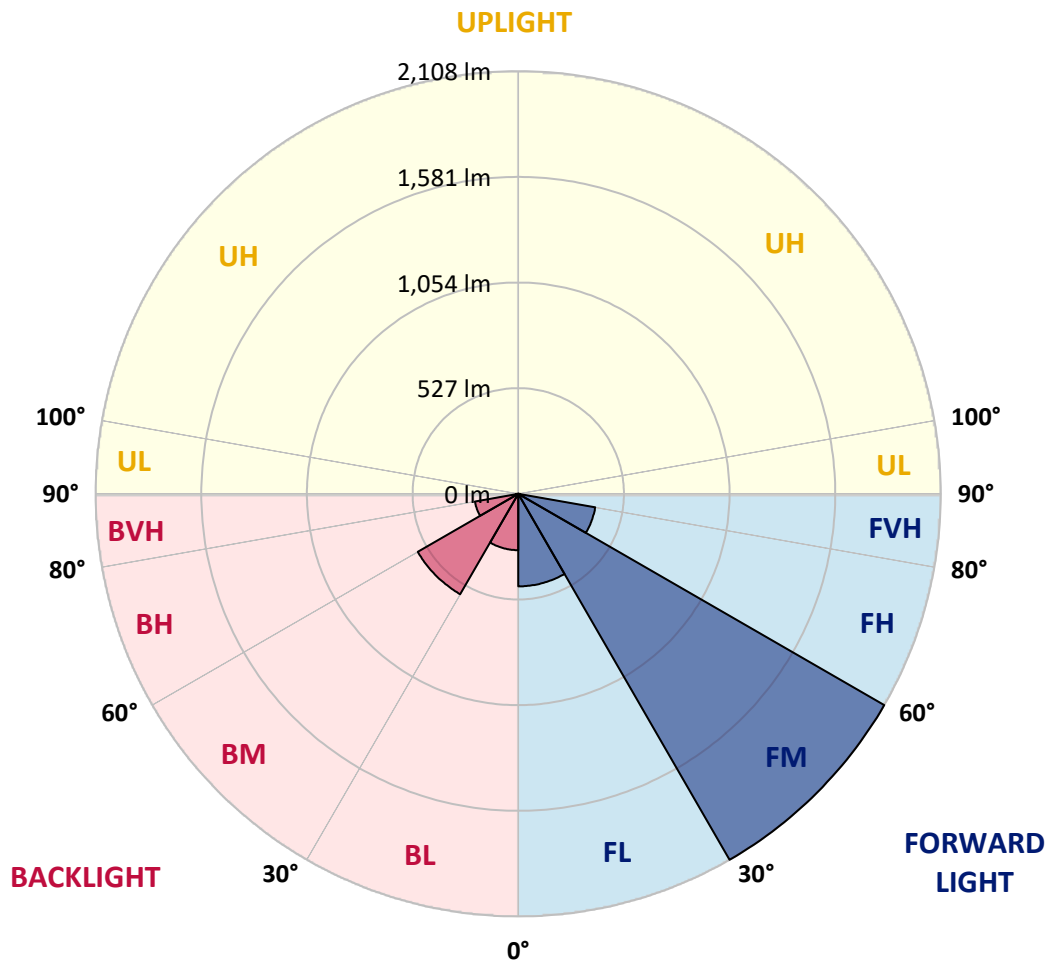
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.5	11.4			
FM (30°-60°)	2108.2	51.9			
FH (60°-80°)	390.0	9.6			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	281.0	6.9	B1/500		
BM (30°-60°)	578.6	14.2	B1/1000		
BH (60°-80°)	219.7	5.4	B1/500		G1/500
BVH (80°-90°)	12.6	0.3			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°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
2.5°	856.1	842.3	841.3	837.6	839.7	830.2	820.2	807.0	793.4	801.8	781.8
5°	916.0	897.6	905.0	892.4	893.9	881.3	860.8	845.5	828.6	818.6	804.4
7.5°	937.1	938.6	943.9	941.8	931.3	931.3	917.6	890.8	861.3	855.5	831.8
10°	965.6	966.1	960.3	961.9	976.6	969.8	957.6	946.0	908.1	901.3	859.2
12.5°	975.6	966.1	975.6	984.0	1001.3	1010.8	1008.2	999.8	959.2	954.5	892.9
15°	977.1	971.4	979.2	998.2	1013.4	1053.4	1073.5	1067.6	1014.0	1014.5	930.8
17.5°	969.8	977.7	980.8	997.1	1032.4	1069.8	1127.7	1135.6	1091.4	1084.5	978.7
20°	979.8	974.0	978.2	992.9	1039.7	1098.2	1174.0	1226.1	1164.0	1159.2	1028.2
22.5°	1018.2	1010.3	1009.2	1018.7	1052.4	1113.0	1223.0	1316.7	1252.4	1255.1	1089.8
25°	1048.2	1052.4	1048.7	1048.2	1069.2	1135.0	1287.7	1424.6	1372.5	1357.2	1162.4
27.5°	1099.8	1109.8	1102.4	1112.4	1107.7	1168.2	1334.1	1544.1	1502.0	1481.4	1228.2
30°	1171.3	1176.6	1169.8	1169.8	1155.6	1214.6	1376.1	1668.9	1651.5	1623.6	1305.7
32.5°	1265.6	1273.5	1259.8	1251.9	1249.8	1283.5	1452.0	1792.1	1821.5	1797.9	1408.3
35°	1390.4	1385.6	1369.3	1361.9	1333.5	1389.3	1564.7	1933.7	2011.1	1968.9	1532.6
37.5°	1500.4	1493.0	1492.0	1450.9	1457.8	1503.5	1660.5	2041.1	2194.8	2182.7	1663.6
40°	1603.1	1609.9	1620.9	1597.8	1587.3	1637.8	1772.1	2123.2	2337.5	2332.8	1764.7
42.5°	1713.1	1706.8	1726.2	1706.8	1691.0	1762.6	1893.2	2180.0	2462.8	2423.8	1870.6
45°	1872.7	1852.6	1859.5	1861.0	1849.4	1875.8	1943.1	2221.2	2550.7	2546.5	1947.9
47.5°	2005.8	2006.4	1994.8	1985.8	1950.5	1976.9	1999.0	2246.9	2651.8	2644.9	1977.9
50°	2055.3	2048.4	2082.1	2101.7	2103.8	2050.0	2042.7	2261.1	2705.0	2675.0	2007.9
52.5°	1877.4	1883.7	1936.8	2052.7	2119.6	2125.3	2093.8	2290.6	2726.5	2720.2	2032.1
55°	1510.9	1541.5	1628.8	1762.6	1921.1	2095.4	2149.0	2321.2	2738.1	2732.8	2139.5
56°	1328.3	1352.0	1465.7	1570.4	1769.5	1986.4	2114.3	2353.8	2747.0	2771.9	2164.8
57.5°	1069.2	1096.6	1178.2	1297.2	1532.0	1778.9	2018.5	2313.8	2712.3	2721.8	2183.2
60°	668.6	671.2	769.2	847.6	1012.9	1254.0	1540.5	2013.2	2510.1	2496.5	1961.0
62.5°	438.6	439.1	528.1	592.2	667.6	722.8	906.6	1335.1	1852.1	1827.9	1396.1
65°	308.0	314.8	383.7	469.6	500.1	471.2	465.4	703.9	1034.5	999.8	750.2
67.5°	225.3	225.9	286.9	379.0	423.3	358.5	291.2	343.8	409.6	408.6	347.5
70°	149.0	155.3	202.2	283.2	333.8	288.0	237.9	245.8	260.6	260.6	258.5
72.5°	86.9	92.7	123.7	179.6	187.5	180.1	188.5	210.6	220.1	219.5	216.9
75°	49.5	52.1	59.0	74.8	93.2	110.0	138.4	159.5	169.0	174.8	167.9
77.5°	28.9	30.5	34.7	42.6	48.4	59.5	75.3	90.0	102.7	101.1	102.1
80°	15.3	15.3	19.5	25.2	33.7	42.1	50.0	58.4	65.3	66.9	68.5
82.5°	8.9	9.5	12.6	18.4	24.2	30.0	38.4	44.2	50.5	51.0	52.1
85°	4.7	5.3	7.9	12.1	16.3	18.4	18.9	17.9	19.5	18.4	21.0
87.5°	1.6	1.6	2.6	2.1	2.1	2.6	3.2	3.2	4.2	4.2	4.2
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°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
2.5°	781.3	781.3	772.3	755.5	752.9	746.0	739.7	739.2	734.4	730.2	728.1
5°	796.0	779.7	766.5	751.3	733.4	724.9	715.4	704.9	700.7	704.9	704.4
7.5°	812.8	799.2	759.7	731.2	710.7	702.3	691.8	680.7	681.8	681.8	674.4
10°	829.1	810.7	747.6	711.2	681.2	674.9	669.1	673.3	678.6	679.7	674.9
12.5°	856.6	814.9	741.8	691.2	672.3	658.6	662.3	673.9	684.9	681.8	685.4
15°	877.1	818.6	715.4	670.7	647.0	653.4	666.5	674.4	692.8	690.7	694.4
17.5°	897.1	820.7	689.7	643.4	633.4	650.7	660.7	683.3	689.1	701.8	706.5
20°	938.1	824.9	663.4	626.5	623.3	643.4	660.7	671.2	683.9	694.9	694.9
22.5°	959.2	822.8	646.0	604.3	614.4	627.0	642.8	660.7	660.7	671.2	671.8
25°	985.6	814.4	618.6	593.8	601.2	613.3	631.3	624.9	631.8	631.8	640.2
27.5°	1015.5	796.5	594.9	574.9	589.6	602.8	605.4	601.2	593.3	592.2	589.1
30°	1039.7	774.4	577.5	568.6	580.7	588.0	579.6	570.7	557.0	555.9	548.6
32.5°	1072.9	747.1	555.9	552.8	566.5	567.0	564.4	550.7	530.7	522.3	513.9
35°	1128.7	731.2	539.6	544.4	548.6	547.0	542.3	527.5	507.5	503.8	500.6
37.5°	1169.8	719.6	522.8	528.6	532.3	534.4	520.2	503.8	504.3	496.9	494.8
40°	1216.1	712.3	509.1	511.7	512.3	519.1	501.7	493.8	497.5	492.7	495.9
42.5°	1275.6	714.4	494.8	492.7	502.7	500.1	491.7	481.2	483.3	469.1	471.2
45°	1307.2	728.6	486.4	477.0	488.0	487.5	476.4	466.4	453.8	426.5	427.5
47.5°	1328.3	732.3	466.4	460.1	471.7	478.5	465.9	442.8	424.9	405.4	400.7
50°	1349.8	739.2	457.0	443.8	448.5	464.9	449.1	427.0	409.6	392.2	394.8
52.5°	1368.8	752.3	438.6	419.1	427.5	445.4	437.0	410.1	391.1	376.9	372.7
55°	1453.0	781.8	407.5	382.2	402.3	424.9	420.1	387.4	366.9	359.6	358.5
56°	1466.2	782.9	391.1	369.5	388.0	418.0	412.3	377.4	359.0	347.5	348.0
57.5°	1468.3	770.2	368.0	358.0	373.8	408.0	400.7	369.5	344.3	333.8	330.6
60°	1291.9	601.2	339.0	332.7	351.1	377.4	374.8	348.0	319.6	307.5	313.3
62.5°	880.8	440.7	316.4	315.4	324.8	350.6	343.8	319.6	295.9	288.0	284.3
65°	512.8	334.3	294.3	290.1	298.0	311.7	316.4	291.2	266.4	261.1	259.5
67.5°	302.7	276.4	265.8	259.0	256.4	264.8	268.5	253.7	229.0	221.6	228.0
70°	253.2	245.8	246.4	234.8	228.5	222.7	219.5	206.4	185.9	176.4	173.8
72.5°	218.5	215.3	213.2	202.7	196.9	183.8	170.1	156.8	141.6	133.7	134.2
75°	166.9	165.8	166.9	161.6	151.6	141.1	128.4	111.6	100.0	90.0	92.1
77.5°	99.5	102.7	104.2	102.1	97.9	88.5	80.6	69.5	58.4	50.5	49.5
80°	68.5	71.1	73.7	71.1	66.9	60.0	51.6	43.1	35.2	31.0	30.0
82.5°	52.1	54.7	56.3	53.7	48.4	41.0	35.2	29.5	23.1	18.9	17.9
85°	18.9	21.6	21.0	25.2	27.4	26.3	22.6	17.4	13.1	9.5	8.9
87.5°	5.3	4.7	5.3	5.3	5.3	4.7	4.2	4.2	4.2	2.6	2.1
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)