

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: P650688

Luminaire Tested: **GALN-SA1C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5855.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

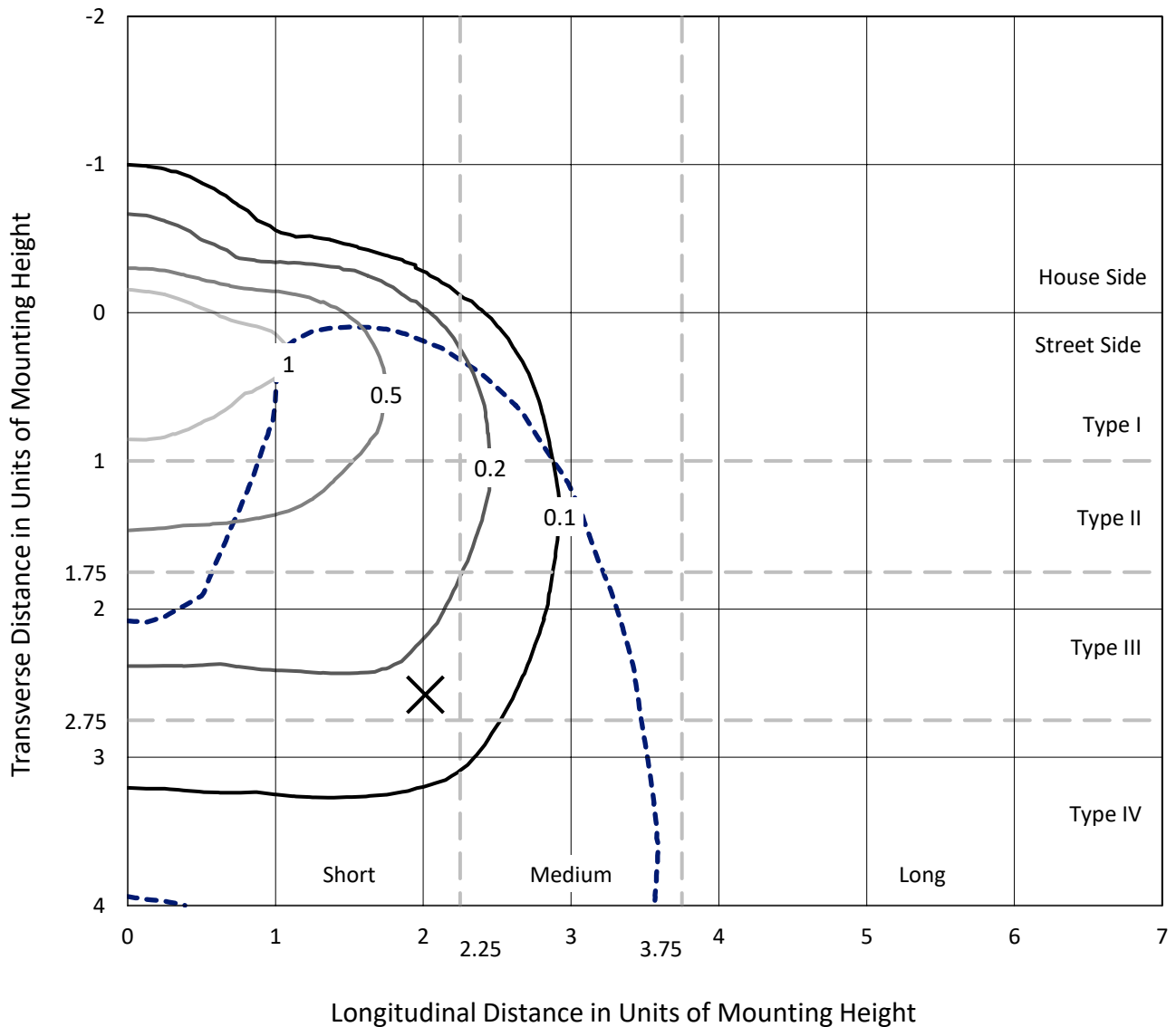
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

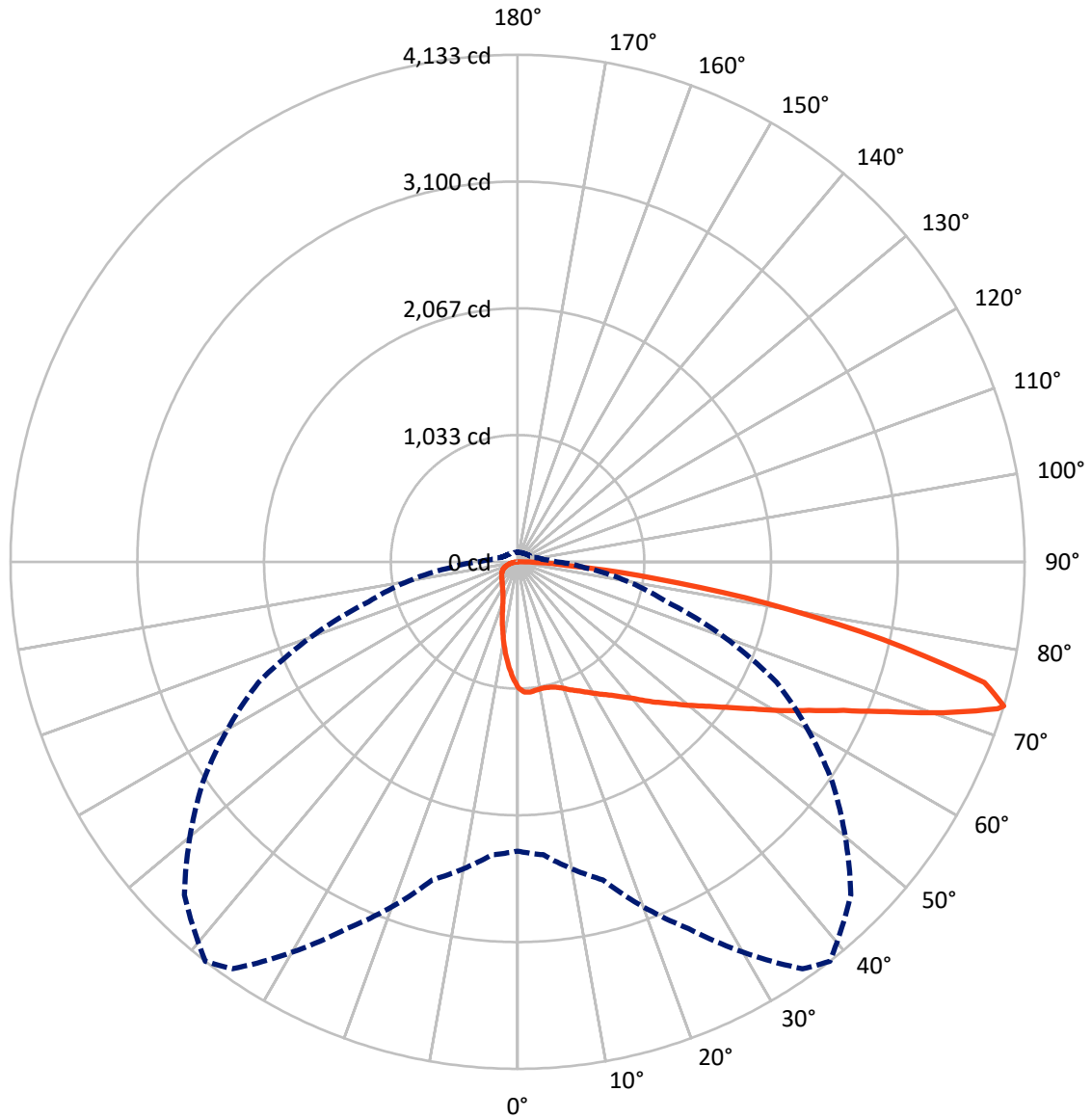
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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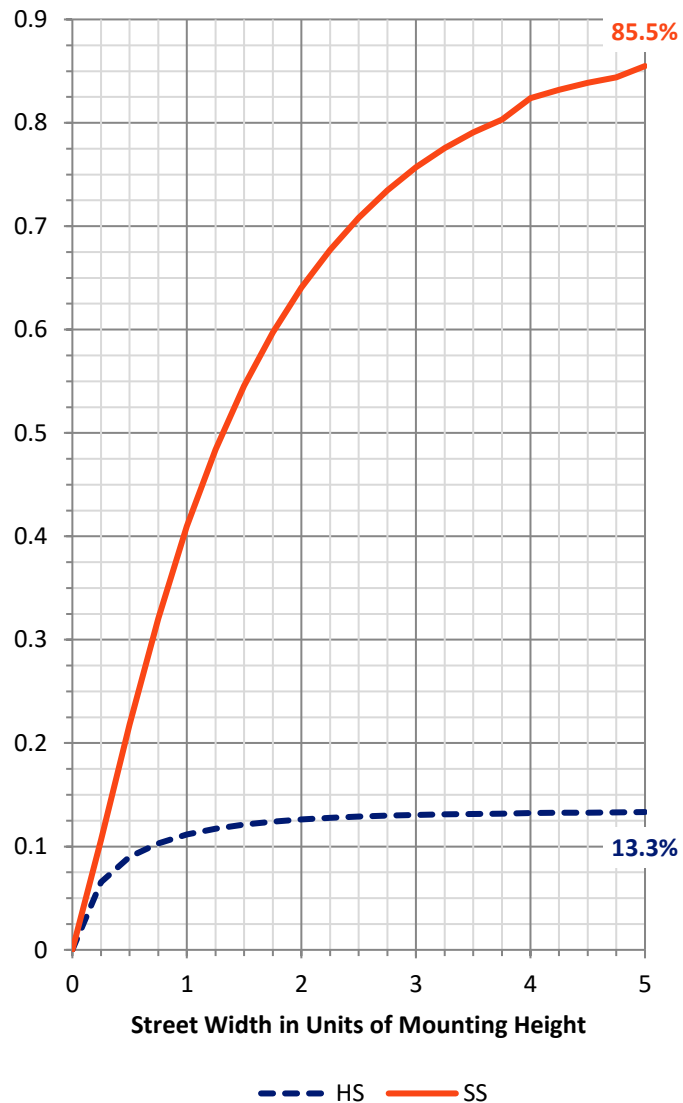
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.2	0.0	787.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5068.7	0.0	5068.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	5855.9	0.0	5855.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.5
10°-20°	230.3	3.9
20°-30°	358.6	6.1
30°-40°	526.0	9.0
40°-50°	780.2	13.3
50°-60°	1105.4	18.9
60°-70°	1402.2	23.9
70°-80°	1167.3	19.9
80°-90°	196.1	3.3
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°	5855.9	100.0
0°-180°	5855.9	100.0

Coefficient of Utilization



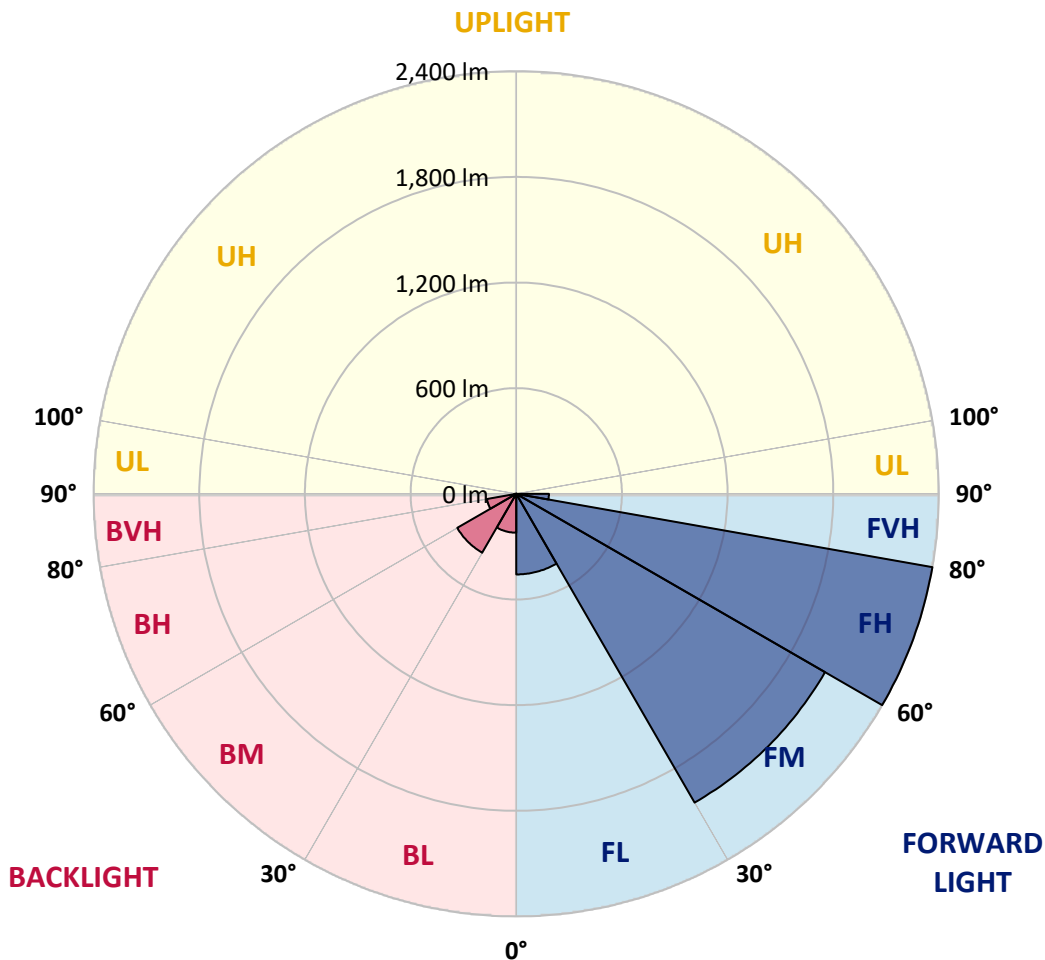
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.8	7.8			
FM (30°-60°)	2025.1	34.6			
FH (60°-80°)	2400.3	41.0			G2/5000
FVH (80°-90°)	185.5	3.2			G2/225
BL (0°-30°)	220.9	3.8	B1/500		
BM (30°-60°)	386.5	6.6	B1/1000		
BH (60°-80°)	169.2	2.9	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1070.1	1075.4	1072.8	1069.2	1066.8	1064.5	1061.2	1051.6	1044.0	1035.7	1022.8
5°	1078.1	1081.4	1079.0	1074.4	1069.2	1066.8	1060.5	1048.0	1035.7	1021.8	1002.6
7.5°	1073.5	1074.7	1072.1	1066.5	1061.8	1057.6	1050.2	1036.4	1021.5	1004.7	979.5
10°	1056.9	1061.8	1061.8	1057.2	1052.6	1050.2	1043.0	1029.8	1016.2	997.0	967.2
12.5°	1043.3	1048.6	1052.9	1051.6	1051.2	1051.2	1045.6	1035.7	1019.9	1001.6	966.3
15°	1034.1	1040.3	1049.7	1054.9	1058.2	1059.2	1056.9	1048.3	1032.1	1010.9	970.3
17.5°	1032.1	1039.7	1056.5	1068.2	1076.7	1076.4	1075.7	1063.9	1046.0	1024.2	975.2
20°	1041.0	1050.9	1074.4	1092.6	1105.2	1102.9	1099.2	1083.7	1062.9	1038.4	979.8
22.5°	1067.8	1078.1	1103.8	1123.7	1135.9	1135.9	1125.0	1104.5	1082.4	1054.9	986.2
25°	1106.2	1117.4	1144.9	1165.0	1170.7	1166.4	1155.4	1130.6	1105.2	1078.8	999.4
27.5°	1153.1	1166.7	1192.1	1209.0	1207.3	1204.1	1192.8	1161.1	1135.6	1111.5	1021.8
30°	1211.6	1221.6	1248.0	1252.0	1246.0	1245.4	1229.5	1197.8	1174.0	1155.4	1053.9
32.5°	1266.9	1275.8	1297.0	1298.6	1288.1	1289.3	1274.5	1245.4	1231.8	1225.2	1107.8
35°	1325.4	1330.0	1348.2	1346.3	1339.3	1338.3	1332.3	1304.6	1308.8	1320.8	1184.2
37.5°	1374.4	1383.6	1393.9	1395.6	1395.2	1398.5	1402.5	1389.2	1414.1	1451.4	1284.4
40°	1419.4	1427.3	1442.5	1447.8	1460.6	1467.3	1480.8	1481.2	1538.4	1599.9	1407.7
42.5°	1449.7	1463.3	1491.8	1501.4	1532.7	1552.6	1572.8	1594.3	1677.3	1756.3	1553.2
45°	1476.2	1494.0	1541.4	1571.1	1613.8	1637.9	1680.6	1725.6	1844.9	1948.4	1701.1
47.5°	1516.2	1532.0	1586.3	1638.9	1703.4	1731.2	1795.0	1862.1	2018.2	2131.6	1842.6
50°	1571.7	1581.3	1636.6	1722.2	1804.6	1840.3	1924.6	2021.5	2203.4	2312.5	1966.9
52.5°	1642.9	1646.8	1690.8	1804.9	1913.4	1957.7	2069.4	2182.6	2365.4	2469.6	2065.5
55°	1726.9	1720.3	1754.7	1892.5	2037.7	2095.6	2215.6	2345.5	2547.6	2596.6	2137.2
57.5°	1809.8	1799.7	1827.1	1999.1	2191.1	2260.9	2400.8	2513.6	2710.4	2715.3	2187.5
60°	1897.8	1890.2	1922.9	2124.0	2379.4	2462.0	2591.3	2687.8	2867.7	2798.0	2195.4
62.5°	1988.1	1975.8	2022.5	2264.6	2591.3	2666.4	2791.7	2873.0	3022.2	2828.7	2119.1
65°	2075.8	2070.1	2142.2	2431.6	2832.7	2918.0	3039.7	3095.0	3145.8	2782.4	1929.6
67.5°	2169.0	2180.2	2295.3	2654.4	3147.5	3254.7	3386.0	3334.1	3181.3	2563.2	1625.0
70°	2311.2	2318.5	2496.4	2946.4	3553.3	3682.6	3746.1	3419.0	3010.6	2146.8	1221.6
72.5°	2372.4	2404.4	2676.0	3253.0	4014.3	4093.3	3867.1	3229.5	2507.9	1458.4	641.9
73°	2358.8	2397.2	2684.2	3299.7	4050.3	4133.3	3841.3	3132.0	2331.3	1255.9	550.3
75°	2189.8	2237.1	2576.7	3260.6	3980.2	3930.6	3426.7	2669.3	1575.4	571.1	250.7
77.5°	1727.8	1741.5	2041.7	2633.0	3134.3	3042.3	2564.5	1668.4	643.5	212.3	142.2
80°	866.7	916.7	1150.8	1508.2	2095.9	2065.8	1618.8	789.0	268.2	124.6	94.3
82.5°	417.0	452.4	560.5	735.5	1158.1	1130.6	801.6	431.2	170.3	72.7	55.6
85°	268.5	294.9	356.8	350.9	476.2	454.7	360.1	326.4	100.8	38.0	38.7
87.5°	177.3	194.1	232.8	186.2	173.2	156.8	159.0	183.8	19.8	14.5	5.3
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°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1017.5	1013.2	999.0	985.1	971.9	959.3	951.1	940.2	932.8	934.9	937.8
5°	992.0	982.5	957.3	932.8	909.7	882.3	860.1	842.3	828.7	823.8	822.8
7.5°	965.3	949.1	913.1	871.0	831.7	797.6	758.2	738.7	715.9	708.0	705.3
10°	949.1	927.3	876.7	818.1	758.9	702.4	659.8	625.0	593.6	587.6	584.7
12.5°	944.4	915.7	847.6	772.1	693.5	624.0	560.9	515.2	484.8	477.9	467.6
15°	941.8	906.1	820.5	725.9	626.0	541.4	474.9	421.6	393.8	375.3	375.7
17.5°	939.5	895.2	790.0	675.2	567.8	470.2	396.9	348.8	323.4	313.5	312.5
20°	936.2	882.3	755.0	622.0	501.3	405.4	338.9	303.3	286.0	277.8	277.4
22.5°	934.9	869.7	720.6	567.8	442.5	355.5	300.6	275.4	264.6	258.9	258.9
25°	938.1	860.8	684.5	516.2	390.2	312.9	274.2	256.9	250.7	247.7	246.7
27.5°	948.4	856.8	648.8	464.7	342.3	283.8	256.3	244.4	239.8	237.4	237.8
30°	967.9	856.5	613.8	413.7	306.5	261.6	242.0	233.8	230.2	228.8	228.5
32.5°	999.4	863.8	579.4	371.7	276.4	243.0	228.8	222.9	221.3	220.3	219.9
35°	1052.6	884.2	545.3	333.4	253.3	226.5	216.3	213.3	211.0	211.9	212.3
37.5°	1124.3	919.6	512.9	303.3	235.8	214.3	205.7	203.0	201.8	202.7	203.7
40°	1220.5	970.6	485.8	279.1	223.2	204.0	196.5	194.1	192.8	194.4	194.8
42.5°	1326.8	1029.5	463.3	260.3	212.9	195.4	188.1	185.5	184.5	185.5	185.9
45°	1435.8	1097.9	451.7	246.7	204.4	189.1	181.6	178.5	176.3	175.6	176.6
47.5°	1543.3	1157.4	451.4	238.4	197.4	183.5	175.3	172.0	169.0	167.4	167.0
50°	1631.0	1204.7	459.4	234.8	191.5	177.3	169.0	165.7	161.7	158.4	159.0
52.5°	1697.1	1235.4	463.0	233.1	188.1	170.6	162.4	159.4	154.7	150.5	150.5
55°	1739.8	1242.7	454.1	231.4	185.5	163.7	154.7	152.1	147.5	143.2	143.2
57.5°	1754.3	1220.3	421.9	227.5	182.8	157.8	147.2	144.8	141.2	136.9	136.2
60°	1720.6	1144.2	365.8	215.6	177.6	151.5	138.8	137.9	136.6	133.0	132.6
62.5°	1590.6	982.8	304.5	200.1	168.6	144.8	131.3	133.0	134.0	132.0	131.6
65°	1374.4	797.9	260.3	178.5	156.8	135.6	123.0	127.3	129.9	129.9	129.3
67.5°	1114.7	612.8	219.2	160.0	141.9	123.0	113.8	117.1	119.1	118.4	120.0
70°	792.3	415.0	178.5	138.8	123.0	108.8	101.8	101.8	100.5	99.8	99.8
72.5°	384.3	237.1	144.8	116.1	104.8	92.9	87.3	85.0	82.3	82.0	80.4
73°	321.1	212.6	138.3	111.8	100.5	90.6	84.4	80.7	79.1	77.7	77.4
75°	195.4	161.4	115.4	94.3	85.6	78.0	72.4	69.1	67.4	66.4	66.1
77.5°	128.7	120.3	89.7	72.1	65.5	60.9	58.5	55.3	54.2	52.9	52.9
80°	95.9	91.9	64.2	51.0	46.9	43.0	42.3	41.6	39.0	37.3	36.7
82.5°	61.8	65.5	43.6	34.1	29.8	26.5	26.8	27.8	25.1	22.8	22.1
85°	44.0	47.3	26.5	15.6	12.5	10.9	12.2	10.9	11.3	8.9	7.3
87.5°	7.3	12.5	4.6	2.0	1.0	0.7	0.0	0.0	0.0	0.0	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)