

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: P526945

Luminaire Tested: **GALN-SA1D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3783 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 65
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



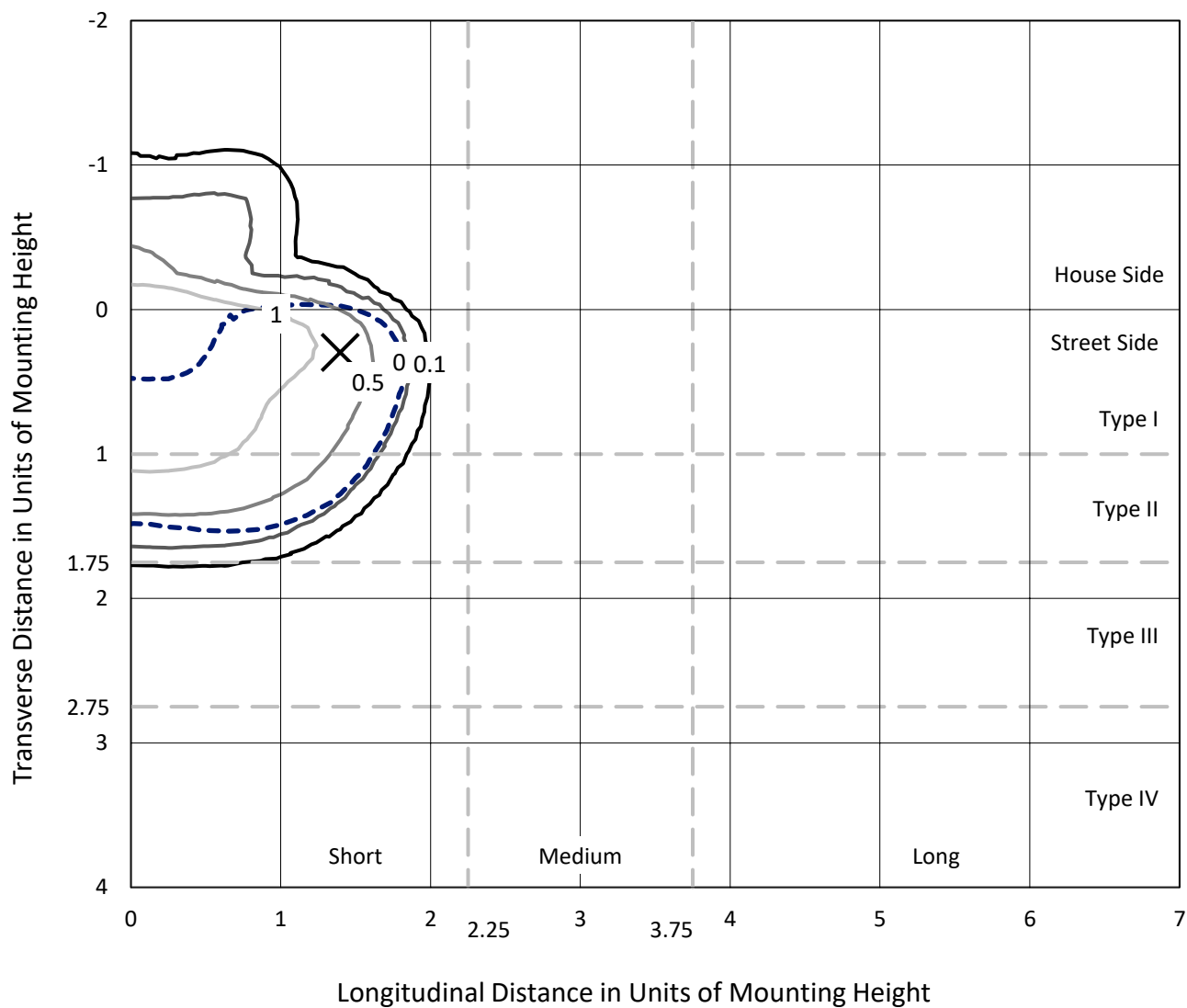
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

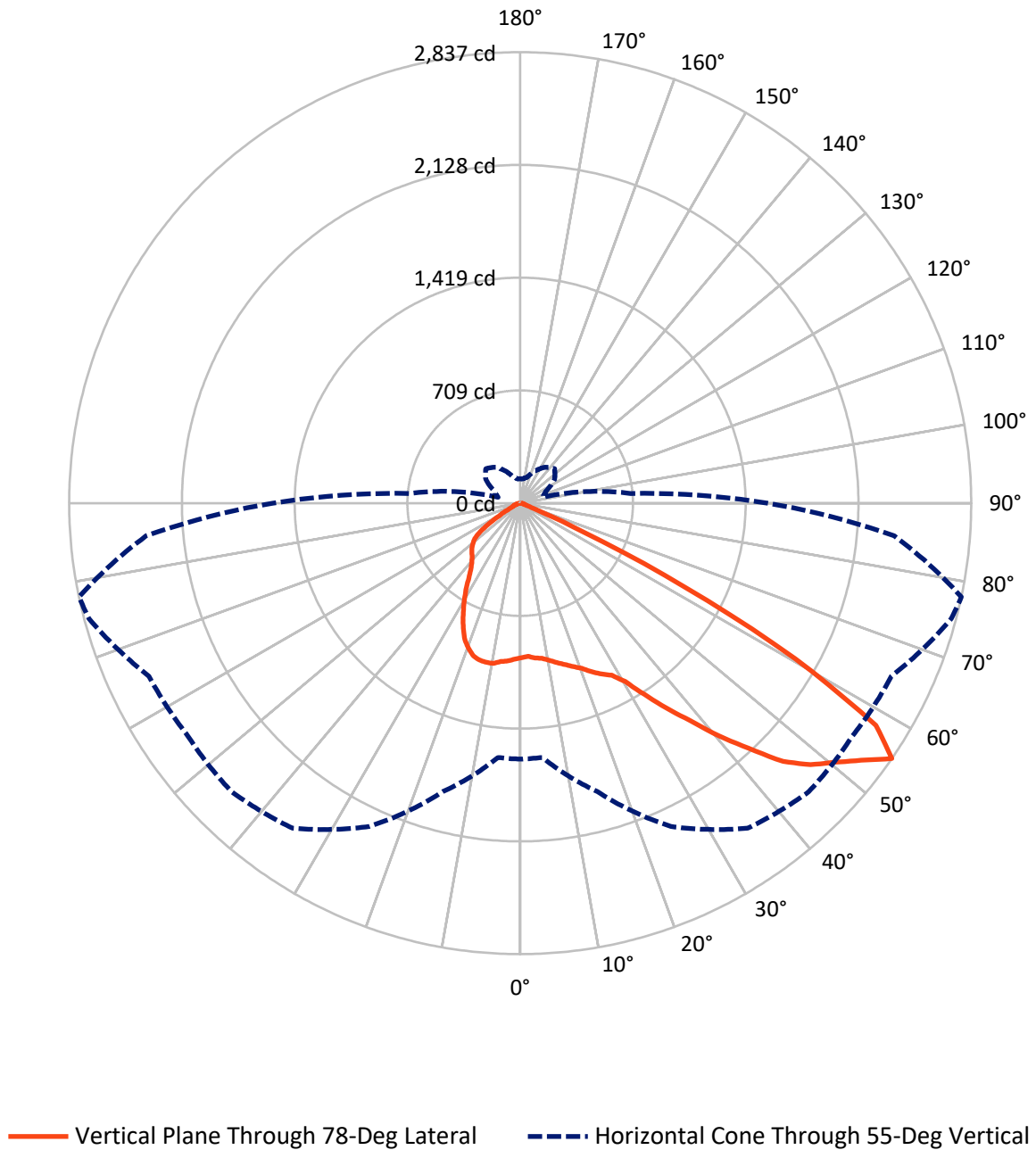


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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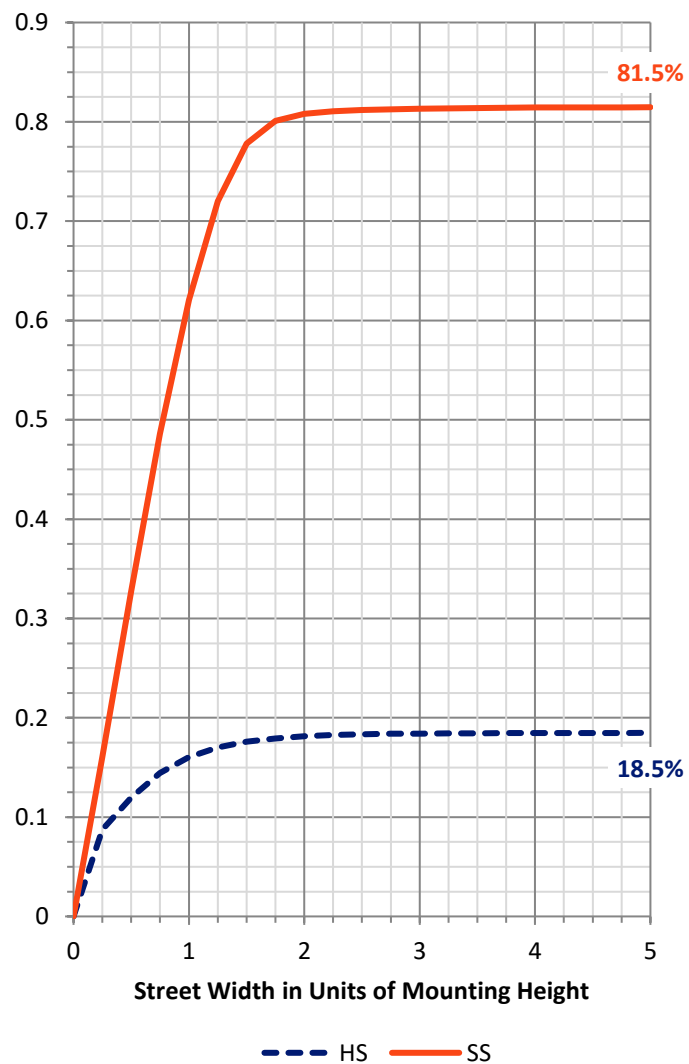
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.7	0.0	702.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3080.4	0.0	3080.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	3783.0	0.0	3783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	2.3
10°-20°	229.5	6.1
20°-30°	402.3	10.6
30°-40°	663.4	17.5
40°-50°	965.3	25.5
50°-60°	1093.8	28.9
60°-70°	312.7	8.3
70°-80°	24.3	0.6
80°-90°	5.1	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°	3783.0	100.0
0°-180°	3783.0	100.0

Coefficient of Utilization



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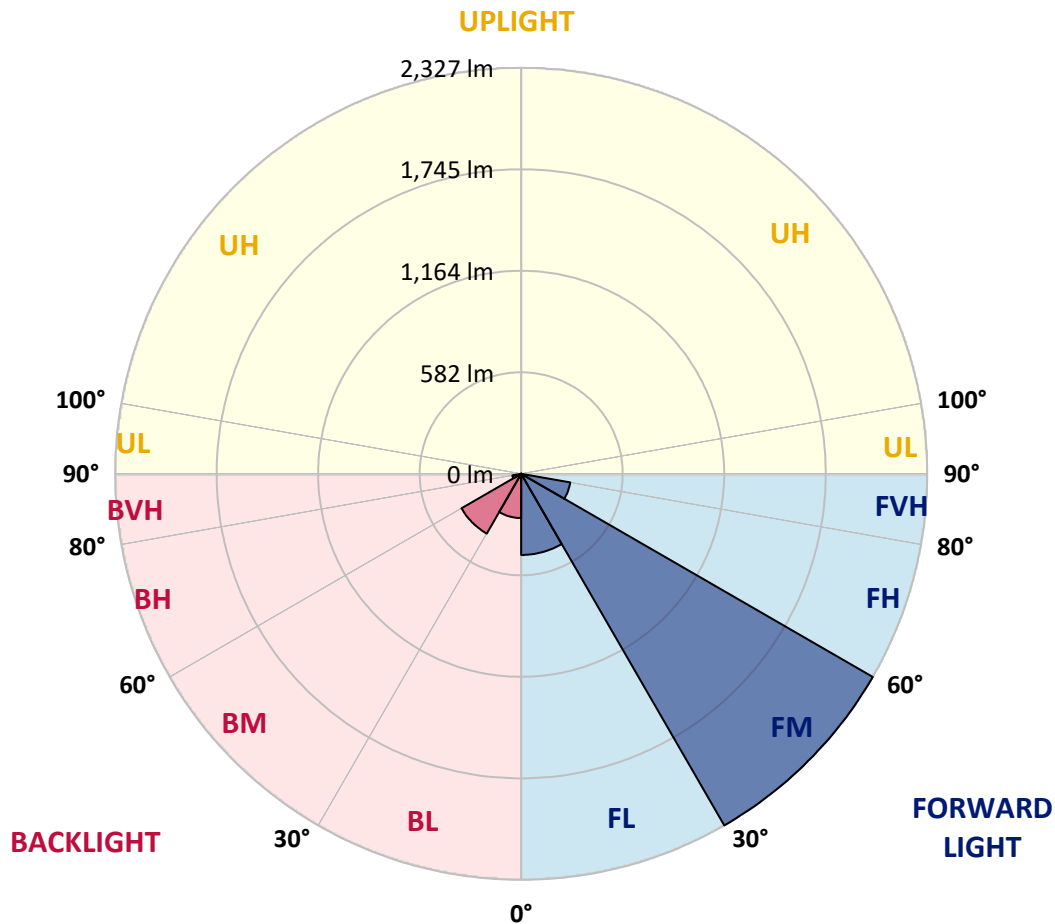
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.0	12.3			
FM	(30°-60°)	2327.1	61.5			
FH	(60°-80°)	285.7	7.6			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	253.5	6.7	B1/500		
BM	(30°-60°)	395.3	10.4	B1/1000		
BH	(60°-80°)	51.3	1.4	B0/110		G0/110
BVH	(80°-90°)	2.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6
2.5°	914.4	923.2	924.6	935.4	934.7	953.0	958.4	959.1	971.3	965.2	980.7
5°	888.7	884.0	882.0	900.9	906.3	922.6	936.1	944.2	969.2	978.0	994.3
7.5°	865.7	865.7	867.1	884.0	882.0	902.9	917.1	942.2	978.7	986.1	1005.8
10°	843.4	835.3	845.5	863.0	877.9	887.4	917.1	940.8	983.4	1005.1	1032.1
12.5°	831.9	836.0	837.3	850.2	866.4	894.8	911.1	950.3	1017.3	1030.1	1059.2
15°	904.3	896.2	876.6	865.1	878.6	892.1	932.7	972.6	1034.8	1053.1	1085.6
17.5°	988.2	981.4	965.2	934.1	903.6	928.6	960.4	997.0	1053.8	1080.8	1128.9
20°	1097.7	1086.9	1070.7	1009.8	983.4	956.4	990.2	1033.5	1084.9	1109.2	1158.6
22.5°	1228.3	1228.3	1191.8	1118.0	1063.2	1037.5	1051.7	1076.8	1119.4	1152.5	1201.2
25°	1364.2	1360.2	1327.0	1250.6	1157.9	1127.5	1143.7	1161.3	1172.8	1191.1	1223.5
27.5°	1519.8	1496.1	1454.2	1369.6	1287.8	1229.0	1246.5	1231.0	1216.8	1226.2	1272.9
30°	1625.3	1640.2	1586.8	1505.6	1428.5	1362.9	1366.3	1352.7	1287.8	1301.3	1329.1
32.5°	1734.9	1744.3	1714.6	1669.9	1592.8	1516.4	1488.7	1477.2	1428.5	1434.6	1407.5
35°	1826.2	1844.4	1818.1	1798.5	1776.1	1714.6	1638.2	1675.4	1596.9	1582.0	1511.7
37.5°	1910.1	1904.6	1935.8	1915.5	1910.7	1867.4	1783.6	1791.0	1738.3	1734.9	1653.7
40°	1985.1	1986.5	2029.1	2038.6	2019.6	1942.5	1820.8	1879.6	1922.2	1926.3	1822.1
42.5°	2047.4	2065.6	2102.1	2178.6	2150.2	2021.7	1859.3	1923.6	2081.8	2106.9	1981.7
45°	2101.5	2138.7	2184.0	2252.3	2236.1	2133.9	1955.4	2014.2	2252.3	2317.9	2131.9
47.5°	2104.8	2153.5	2202.9	2304.4	2324.7	2194.1	2054.8	2157.6	2387.6	2458.6	2241.5
50°	2091.3	2117.0	2215.8	2326.0	2372.0	2292.2	2194.1	2278.0	2518.8	2563.4	2296.9
52.5°	1931.0	1950.6	2148.8	2346.3	2457.2	2403.1	2378.8	2445.7	2652.7	2685.8	2349.0
55°	1609.7	1606.4	1878.9	2244.2	2496.5	2567.5	2552.6	2576.3	2807.6	2837.3	2361.9
57.5°	1101.1	1162.7	1398.0	1868.8	2256.4	2528.9	2544.5	2505.3	2627.0	2638.5	2058.9
60°	593.8	619.5	808.9	1247.2	1718.0	2060.9	2101.5	2030.4	2021.0	1988.5	1469.7
62.5°	236.1	248.9	356.4	617.5	936.1	1252.6	1339.9	1310.8	1248.6	1163.3	760.9
65°	112.3	120.4	177.2	288.8	415.3	522.2	609.4	636.5	469.4	422.7	250.9
67.5°	76.4	82.5	129.2	165.0	148.1	154.9	201.6	187.4	110.2	94.0	69.7
70°	58.2	62.2	103.5	112.3	66.3	46.7	52.1	48.7	45.3	46.0	45.3
72.5°	41.3	44.6	75.8	66.3	29.1	21.6	27.7	33.1	33.1	33.1	32.5
75°	25.0	28.4	44.0	25.7	11.5	11.5	17.6	22.3	23.7	24.3	23.0
77.5°	12.9	16.2	14.9	7.4	7.4	8.8	12.9	15.6	16.9	16.9	16.2
80°	2.7	2.7	2.7	4.1	7.4	9.5	12.9	14.2	16.2	16.2	14.9
82.5°	0.0	0.7	2.0	4.1	6.8	8.8	12.2	14.2	16.2	16.9	15.6
85°	0.0	0.7	1.4	2.7	4.7	5.4	4.7	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6	972.6
2.5°	982.1	984.1	980.7	980.1	977.3	985.5	965.8	961.1	973.3	961.8	964.5
5°	994.9	999.7	993.6	983.4	968.6	945.6	925.9	900.2	888.1	879.3	877.9
7.5°	1004.4	1007.8	1001.7	969.2	924.6	866.4	823.1	791.3	766.3	758.9	746.7
10°	1043.0	1043.6	1013.2	941.5	854.2	777.8	711.5	662.8	637.8	622.3	615.5
12.5°	1068.7	1067.3	1005.8	886.7	770.4	668.9	593.2	534.3	511.3	503.9	499.2
15°	1101.1	1093.7	988.2	830.6	662.2	552.6	484.3	443.7	441.7	436.9	441.7
17.5°	1126.8	1105.9	962.5	728.4	558.7	455.2	410.6	413.3	418.7	423.4	424.1
20°	1168.8	1125.5	903.6	639.2	462.6	390.3	389.6	401.8	415.3	420.7	426.1
22.5°	1200.5	1133.6	840.7	543.8	384.2	363.9	375.4	393.6	403.8	409.2	417.3
25°	1212.0	1111.3	756.9	448.4	346.3	351.7	369.3	381.5	394.3	400.4	397.0
27.5°	1223.5	1099.8	656.7	369.3	326.0	343.6	358.5	370.6	374.7	382.8	388.2
30°	1251.3	1059.9	566.8	319.2	315.9	338.2	349.0	353.1	363.9	368.6	368.6
32.5°	1273.6	1044.3	471.4	295.6	314.5	340.9	342.2	342.2	343.6	340.2	338.9
35°	1319.6	990.9	386.2	281.4	313.8	341.6	344.9	333.4	302.3	290.2	286.8
37.5°	1376.4	956.4	323.3	278.0	318.6	349.7	355.1	311.8	271.2	251.6	248.2
40°	1445.4	932.0	282.0	276.6	329.4	368.6	352.4	294.9	242.1	213.7	212.4
42.5°	1525.9	909.7	254.3	276.0	342.9	388.2	349.7	280.7	212.4	193.4	196.1
45°	1590.1	897.5	235.4	271.2	347.7	399.7	351.7	255.7	200.2	188.0	189.4
47.5°	1640.2	871.8	219.8	263.1	347.0	403.8	333.4	245.5	194.1	197.5	200.9
50°	1641.5	837.3	200.2	245.5	336.8	396.3	312.5	236.1	192.8	207.0	213.7
52.5°	1623.3	788.6	179.2	220.5	313.2	370.6	293.5	232.0	186.7	185.3	193.4
55°	1558.3	697.3	144.1	178.6	264.5	305.7	276.6	224.6	168.4	152.9	154.2
57.5°	1259.4	499.8	106.2	127.8	187.4	223.9	249.6	221.2	151.5	129.9	130.5
60°	779.8	283.4	77.8	87.3	115.7	135.9	202.2	205.6	135.3	109.6	108.2
62.5°	400.4	140.0	60.2	61.5	71.0	79.8	138.7	172.5	122.4	104.2	104.2
65°	133.9	69.0	52.8	47.3	47.3	49.4	83.9	119.7	103.5	87.3	87.3
67.5°	57.5	51.4	46.0	41.3	37.9	35.8	47.3	69.7	77.1	66.3	63.6
70°	44.6	43.3	39.9	34.5	29.8	27.1	27.7	35.8	44.0	42.6	41.3
72.5°	33.1	33.1	31.8	27.1	23.0	19.6	18.3	18.9	21.0	21.6	22.3
75°	23.0	23.7	23.7	21.0	16.9	14.2	12.2	10.1	8.1	6.8	6.1
77.5°	15.6	16.2	17.6	15.6	12.9	9.5	7.4	5.4	3.4	1.4	1.4
80°	13.5	15.6	16.9	15.6	13.5	10.1	7.4	4.1	2.0	0.0	0.0
82.5°	14.2	15.6	17.6	14.9	12.9	9.5	7.4	4.7	2.0	0.7	0.0
85°	3.4	3.4	4.1	4.7	6.1	6.8	5.4	3.4	2.0	0.7	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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)