

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: P450933

Luminaire Tested: **GALN-SA1D-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7169 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

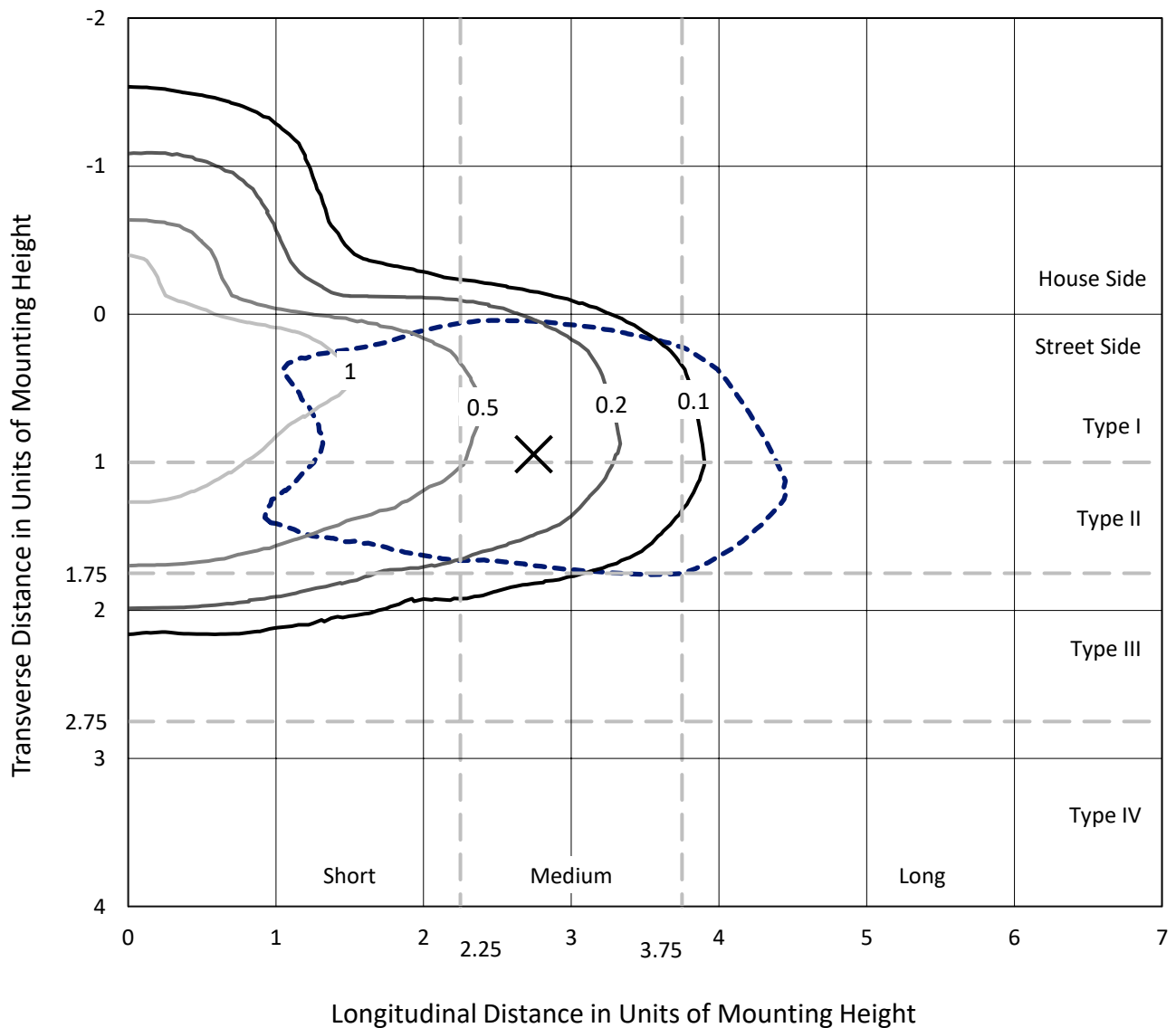
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

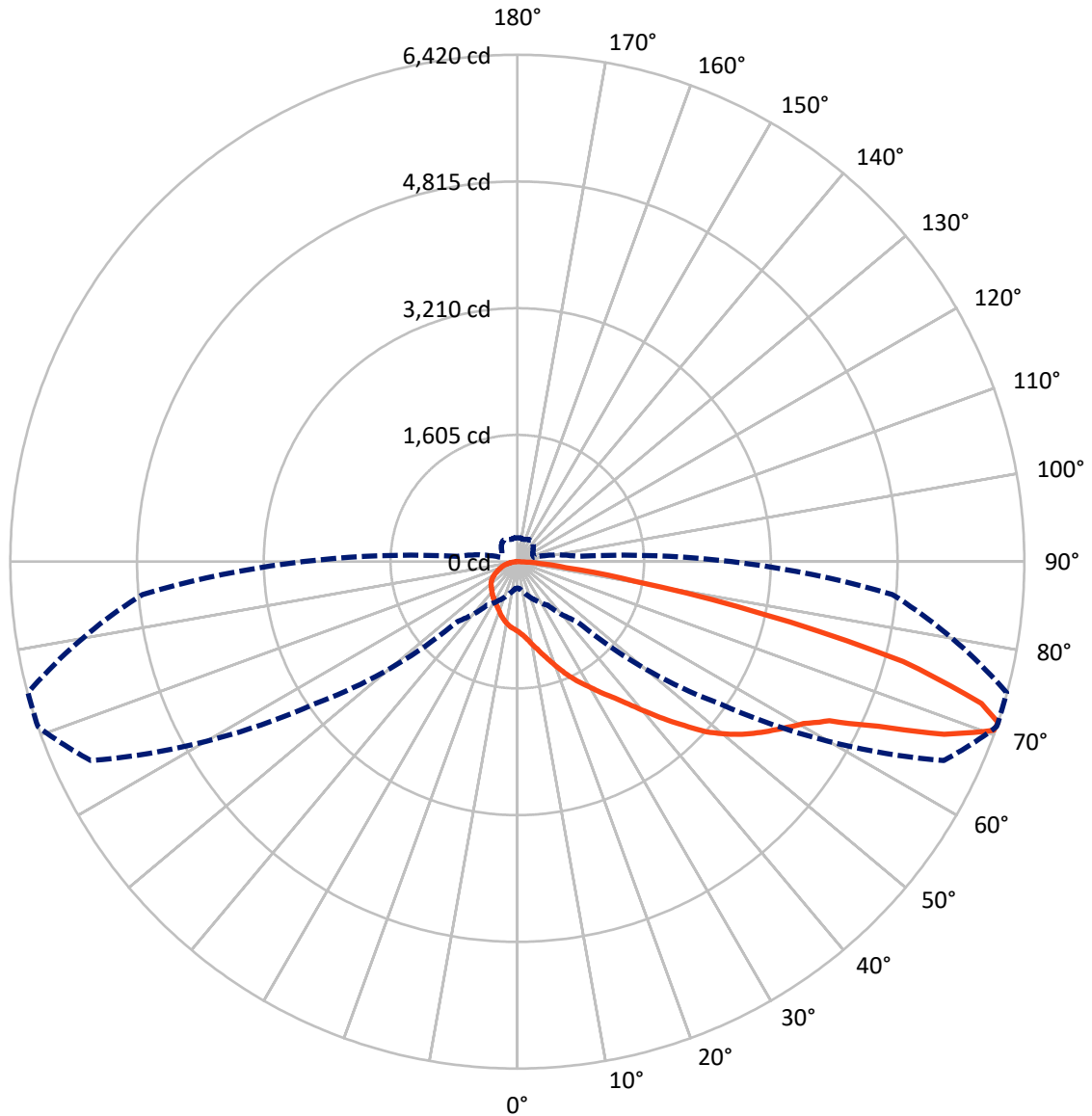
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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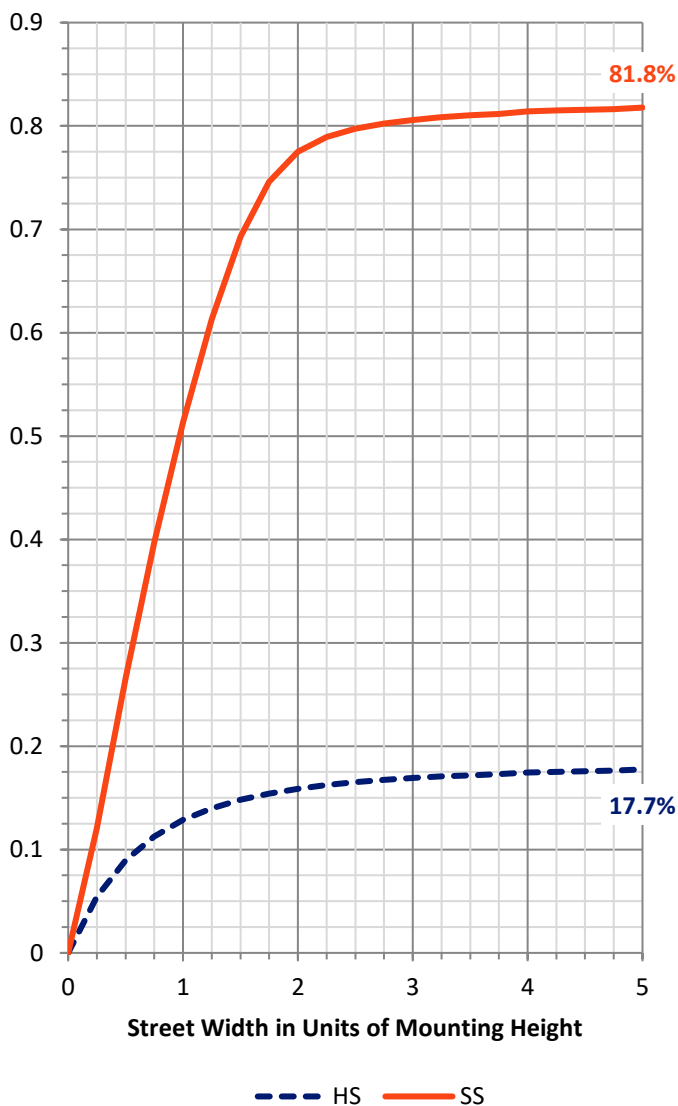
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.3	0.0	1289.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5879.7	0.0	5879.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	7169.0	0.0	7169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.2
10°-20°	287.0	4.0
20°-30°	501.6	7.0
30°-40°	746.1	10.4
40°-50°	1099.2	15.3
50°-60°	1538.9	21.5
60°-70°	1721.2	24.0
70°-80°	1051.4	14.7
80°-90°	135.3	1.9
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°	7169.0	100.0
0°-180°	7169.0	100.0

Coefficient of Utilization



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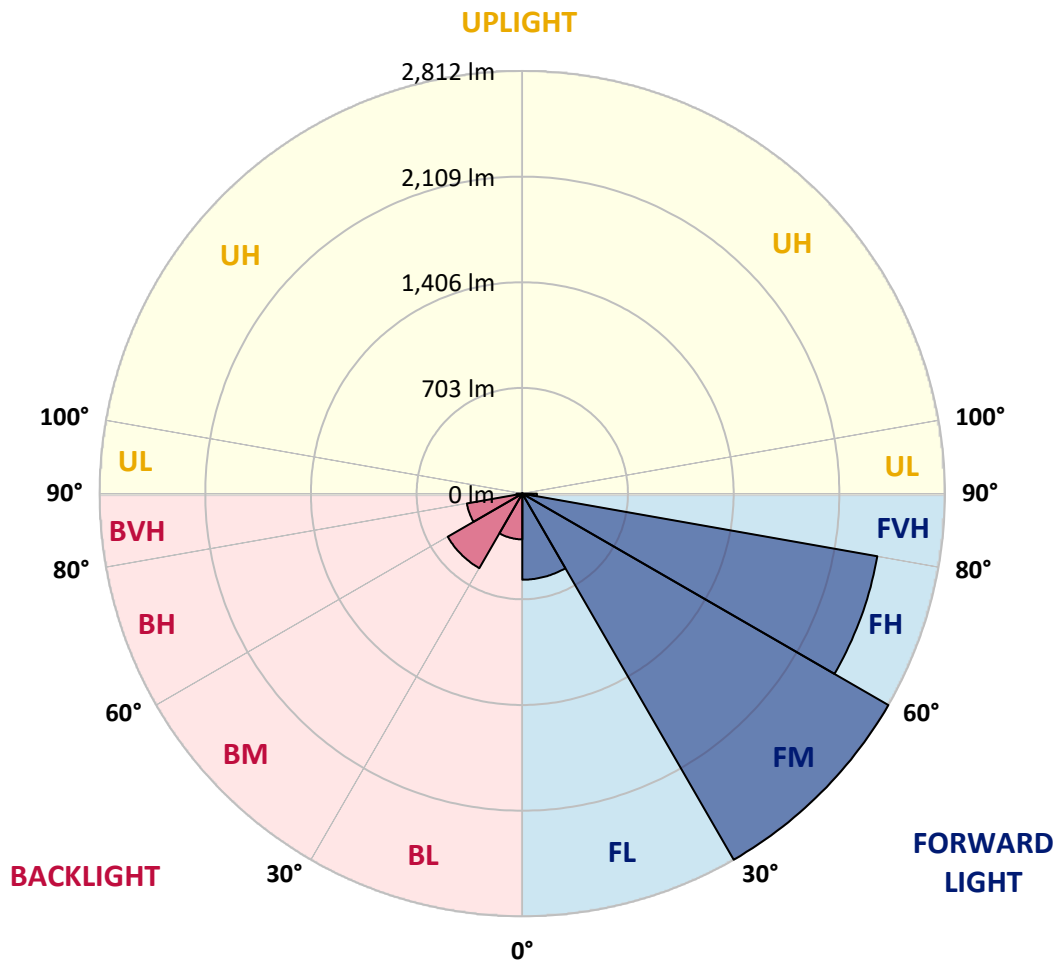
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.8	8.0			
FM (30°-60°)	2811.5	39.2			
FH (60°-80°)	2398.0	33.4			G2/5000
FVH (80°-90°)	97.3	1.4			G1/100
BL (0°-30°)	304.1	4.2	B1/500		
BM (30°-60°)	572.6	8.0	B1/1000		
BH (60°-80°)	374.6	5.2	B1/500		G1/500
BVH (80°-90°)	37.9	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	976.8	972.1	972.4	965.8	957.1	947.6	934.2	922.4	913.0	907.4	891.3
5°	1082.4	1077.7	1071.7	1057.2	1050.9	1027.6	998.1	971.3	950.8	939.4	907.0
7.5°	1167.9	1166.7	1165.1	1156.9	1140.7	1108.4	1083.2	1036.7	1006.3	984.7	929.5
10°	1220.7	1222.7	1223.8	1225.4	1218.7	1201.8	1167.1	1108.4	1069.8	1042.2	958.7
12.5°	1247.5	1249.4	1256.1	1270.7	1279.8	1277.8	1249.4	1191.9	1138.7	1102.5	989.8
15°	1264.0	1267.2	1279.0	1298.3	1328.6	1348.0	1334.2	1281.0	1222.7	1179.7	1026.8
17.5°	1282.2	1285.7	1298.7	1326.3	1366.1	1407.8	1422.8	1377.1	1313.7	1262.4	1068.2
20°	1292.4	1297.1	1315.6	1351.9	1398.4	1459.1	1508.7	1484.7	1415.3	1358.6	1115.9
22.5°	1308.9	1312.9	1328.6	1367.3	1422.8	1498.9	1594.6	1589.5	1528.4	1455.1	1168.3
25°	1353.9	1360.2	1368.0	1391.3	1444.9	1539.4	1665.9	1701.4	1638.0	1556.0	1216.3
27.5°	1438.6	1443.7	1443.3	1446.5	1476.8	1574.5	1727.8	1812.1	1746.7	1658.0	1262.8
30°	1535.1	1537.1	1538.7	1531.6	1538.3	1610.4	1784.5	1921.7	1856.2	1762.9	1303.4
32.5°	1652.5	1656.5	1643.1	1625.0	1619.4	1663.6	1831.4	2031.2	1985.9	1869.2	1343.6
35°	1791.2	1801.5	1774.3	1742.4	1719.9	1740.0	1894.5	2143.1	2118.7	2005.2	1396.8
37.5°	1949.6	1962.2	1937.0	1874.4	1842.5	1848.0	1976.8	2281.4	2286.5	2160.0	1476.0
40°	2079.3	2095.8	2096.6	2007.9	1959.5	1965.8	2081.2	2430.3	2489.0	2351.5	1569.4
42.5°	2164.8	2180.9	2197.9	2145.8	2095.0	2130.9	2203.0	2591.9	2716.8	2584.0	1699.8
45°	2258.5	2273.1	2282.6	2258.9	2230.6	2323.6	2350.0	2763.7	2959.5	2843.7	1842.5
47.5°	2367.3	2383.4	2392.5	2370.0	2359.4	2492.6	2508.4	2924.0	3218.8	3095.8	2000.1
50°	2512.3	2524.5	2519.8	2505.6	2503.2	2622.2	2660.4	3074.2	3432.7	3367.3	2163.6
52.5°	2692.8	2707.3	2712.5	2692.4	2683.3	2714.8	2783.0	3210.9	3627.4	3600.6	2338.1
55°	2801.9	2825.1	2903.2	2934.7	2956.4	2834.6	2915.0	3361.8	3801.9	3846.5	2525.7
57.5°	2662.0	2692.0	2866.5	3024.1	3227.8	3134.1	3102.1	3519.4	3976.5	4084.8	2750.3
60°	2320.8	2327.5	2552.5	2842.9	3252.7	3519.0	3492.6	3770.0	4165.6	4325.2	3046.2
62.5°	1610.0	1624.2	1890.1	2353.5	2946.1	3657.7	4156.9	4202.6	4436.7	4684.9	3480.0
65°	830.2	811.7	1054.0	1479.2	2221.1	3328.3	4695.2	4998.2	5024.6	5247.6	4090.7
67.5°	511.0	519.3	632.8	863.7	1313.3	2418.9	4638.8	5970.2	5831.1	5938.3	4657.7
70°	383.8	394.0	472.0	591.0	800.7	1383.0	3730.6	6205.9	6400.1	6372.5	4830.3
71°	333.7	344.4	425.5	537.8	672.6	1067.4	3143.1	5959.2	6419.8	6415.1	4765.3
72.5°	284.5	291.2	354.6	455.5	567.0	748.2	2361.4	5344.5	6146.0	6303.2	4533.2
75°	223.4	228.5	256.9	347.5	446.4	459.4	1267.2	4006.8	5047.8	5347.3	3774.0
77.5°	182.0	185.6	200.2	258.1	344.4	325.5	664.7	2608.0	3162.4	3463.9	2223.1
80°	144.6	148.5	157.2	174.9	258.1	232.1	317.2	1321.6	1527.6	1524.5	887.3
82.5°	112.3	113.5	123.7	128.5	176.5	164.7	171.8	559.5	619.8	640.3	320.3
85°	70.9	74.5	109.5	98.5	105.6	96.5	84.7	222.2	273.8	269.9	128.1
87.5°	21.7	22.9	37.0	41.8	46.9	42.2	31.1	65.4	80.0	86.7	31.9
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°	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9	879.9
2.5°	885.0	880.6	865.3	852.7	840.8	827.8	816.8	813.7	810.9	809.7	809.3
5°	893.3	880.2	849.9	825.1	805.4	787.3	775.8	770.7	765.6	765.6	767.2
7.5°	905.1	881.4	834.5	797.5	772.7	755.7	747.5	746.7	747.9	749.0	749.4
10°	918.1	880.6	812.1	766.0	743.9	736.0	736.4	743.1	749.4	754.2	754.9
12.5°	930.7	875.9	785.7	736.4	722.2	723.8	734.9	749.8	762.0	768.7	769.1
15°	944.9	868.4	753.8	708.5	703.7	715.9	736.4	759.3	777.8	788.8	790.0
17.5°	956.7	855.8	720.3	681.3	687.2	709.6	738.0	767.6	790.0	803.8	806.2
20°	970.1	839.7	685.6	655.3	672.2	702.5	734.9	766.8	790.0	803.4	806.6
22.5°	980.7	816.8	652.5	634.0	658.8	693.9	724.2	749.8	768.7	775.8	780.6
25°	985.1	788.0	621.4	616.6	648.2	679.7	700.2	714.8	720.7	719.9	721.9
27.5°	982.7	754.9	594.6	602.9	634.8	657.6	667.9	666.7	656.0	646.2	650.9
30°	972.8	715.5	572.1	588.7	617.4	630.0	628.5	613.1	593.0	574.5	575.7
32.5°	955.1	673.0	551.2	572.5	593.0	598.5	587.9	567.8	539.0	515.0	511.4
35°	940.1	632.4	532.7	554.0	568.6	565.8	555.6	529.6	503.6	482.3	478.7
37.5°	937.8	597.7	515.0	533.1	541.4	537.4	524.8	502.8	493.3	477.2	475.2
40°	950.4	573.3	496.9	511.0	515.0	511.8	498.0	485.4	494.1	490.2	490.2
42.5°	984.7	560.3	480.7	489.0	492.1	494.5	484.6	474.0	484.6	466.5	460.6
45°	1039.0	560.7	466.1	467.3	476.8	485.0	478.3	462.6	457.1	420.8	413.7
47.5°	1119.0	574.1	454.3	446.8	463.8	477.6	468.1	445.2	420.8	396.8	392.4
50°	1212.4	598.1	443.7	425.5	446.4	468.1	461.0	434.2	409.0	394.4	391.7
52.5°	1316.0	628.5	430.7	401.9	425.2	463.8	462.6	432.6	398.0	388.1	385.7
55°	1444.1	658.4	414.5	374.3	406.2	460.2	458.2	419.6	395.6	388.5	387.7
57.5°	1593.0	701.8	391.3	346.3	384.6	445.6	441.3	411.8	387.7	382.6	382.2
60°	1833.0	769.1	358.2	320.7	362.5	420.0	425.5	398.4	375.1	373.9	373.5
62.5°	2148.6	863.7	323.9	294.3	336.9	386.9	402.7	380.2	361.7	367.6	368.4
65°	2584.4	943.3	288.4	271.9	308.5	355.0	381.0	363.3	346.7	358.2	358.2
67.5°	2868.5	944.9	256.1	248.6	279.8	328.2	358.2	343.2	327.4	346.7	347.5
70°	2809.4	827.8	229.3	224.2	251.8	299.5	332.9	321.1	303.0	320.3	314.0
71°	2714.0	762.8	218.7	214.7	240.7	285.7	321.1	311.3	293.2	304.6	301.0
72.5°	2561.9	662.4	201.3	202.1	224.2	268.3	304.6	294.3	276.2	282.5	281.3
75°	2165.6	578.4	172.2	175.7	192.7	238.8	271.5	263.6	245.1	245.1	243.9
77.5°	1353.9	404.3	143.0	145.0	163.5	204.5	233.3	226.6	208.8	202.9	201.3
80°	505.1	208.8	111.9	114.3	125.7	161.2	193.1	186.8	168.6	161.9	155.6
82.5°	191.1	104.8	82.4	80.4	92.6	122.9	151.3	143.8	129.6	113.5	108.8
85°	72.1	52.0	50.4	48.9	54.4	72.9	93.8	92.2	77.2	65.8	64.6
87.5°	18.9	16.9	19.7	14.6	15.4	13.8	14.2	5.9	2.8	1.2	0.8
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)