

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: P647250

Luminaire Tested: **GALN-SA1D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6115.2 lumens
Efficiency: N/A
Efficacy: 94.1 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

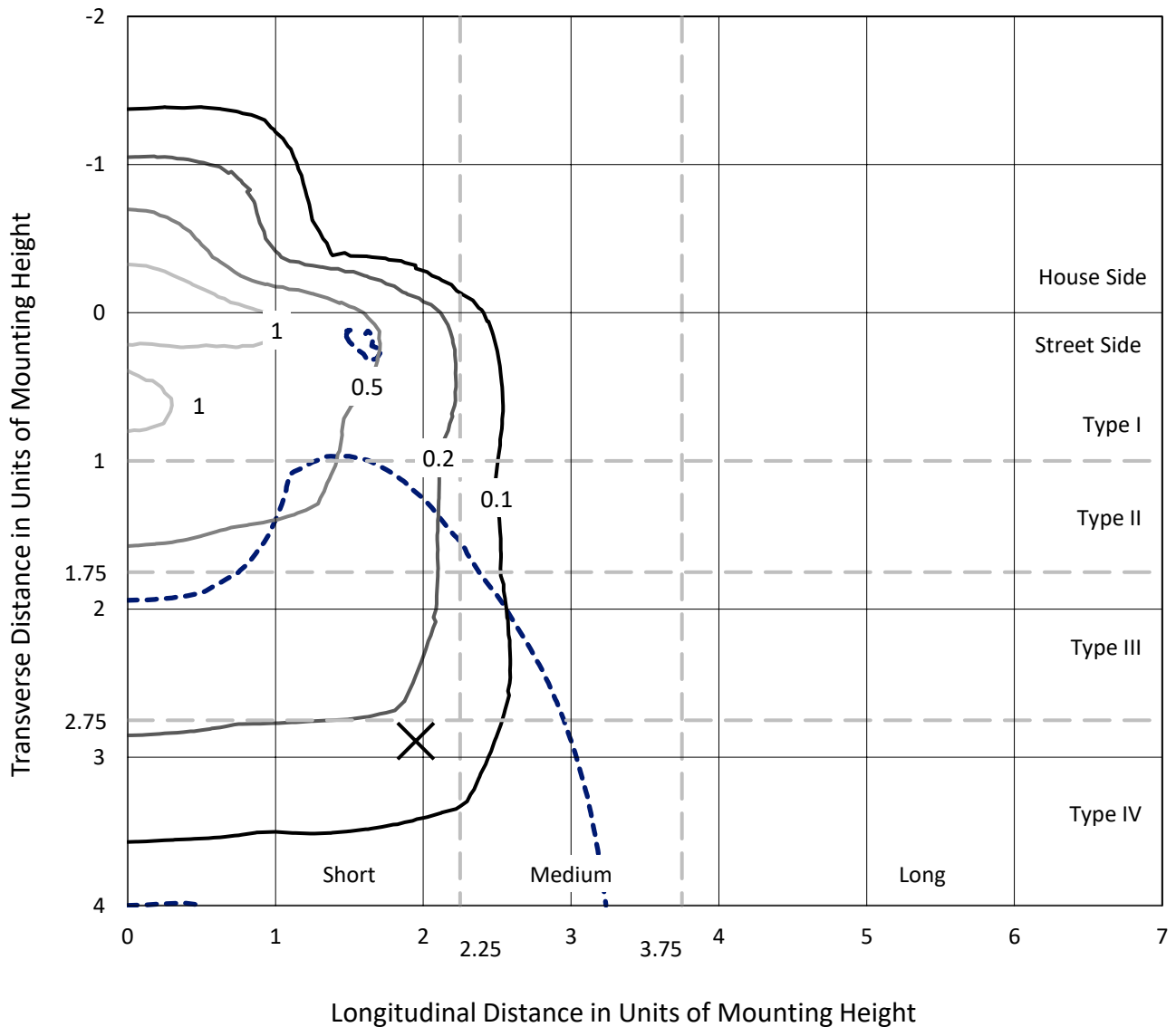
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

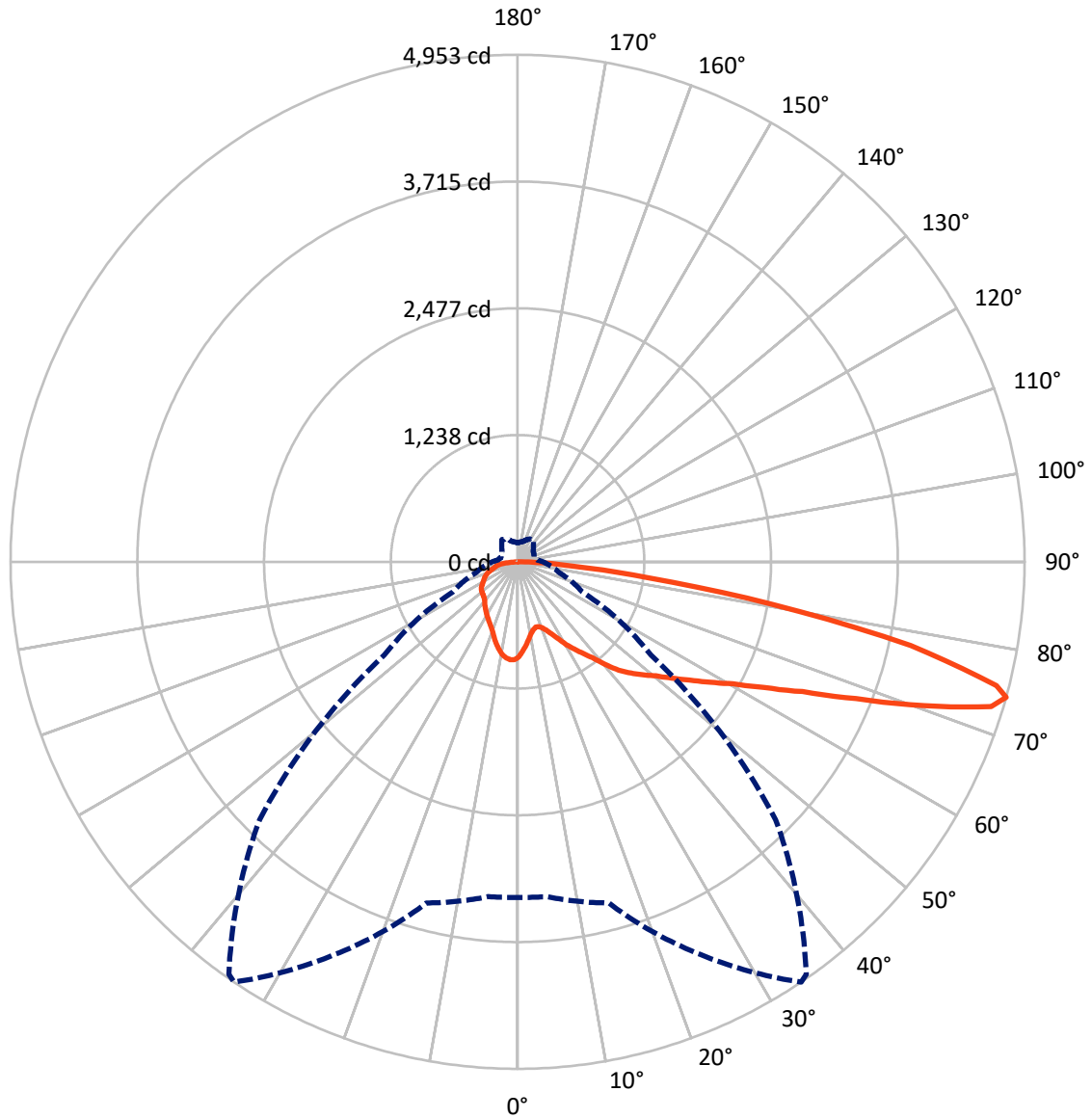
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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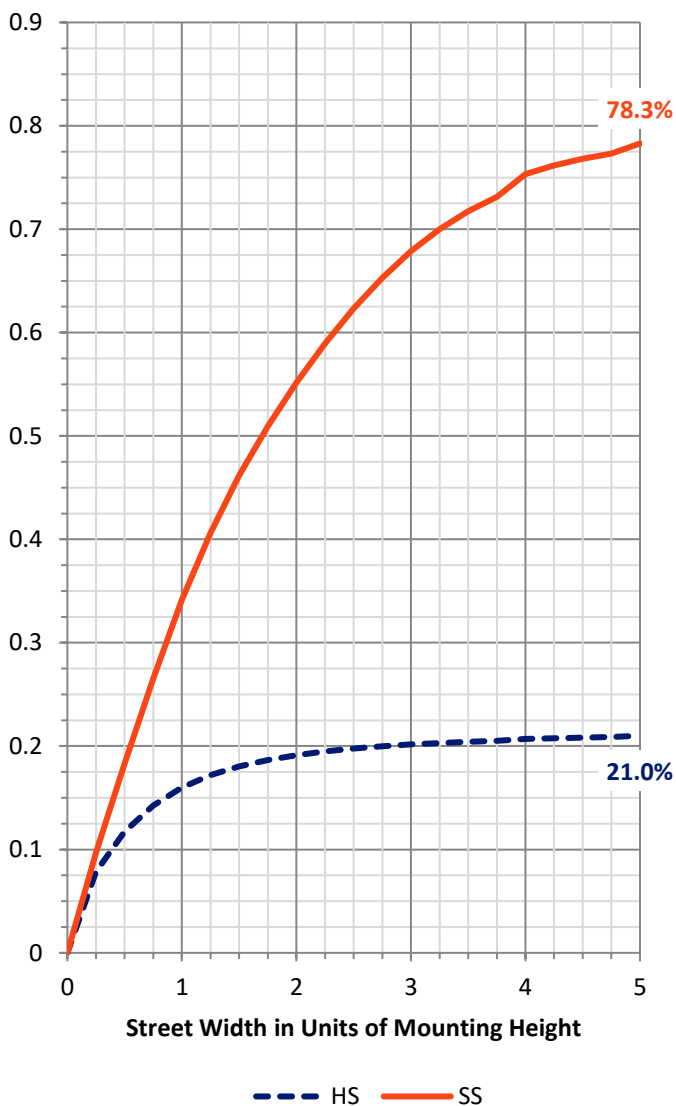
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.4	0.0	1301.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4813.9	0.0	4813.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	6115.2	0.0	6115.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.4
10°-20°	232.4	3.8
20°-30°	383.2	6.3
30°-40°	574.1	9.4
40°-50°	834.5	13.6
50°-60°	1165.6	19.1
60°-70°	1459.3	23.9
70°-80°	1206.7	19.7
80°-90°	174.4	2.9
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°	6115.2	100.0
0°-180°	6115.2	100.0

Coefficient of Utilization



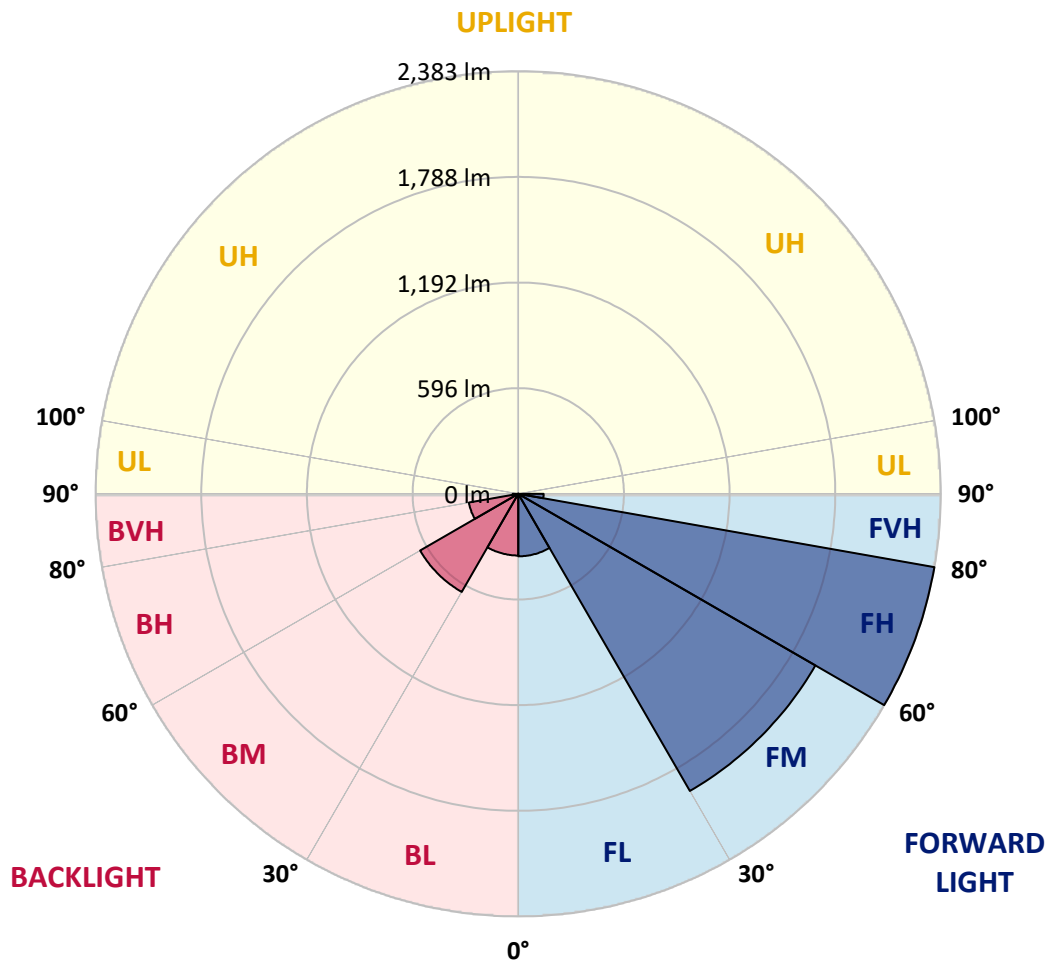
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.5	5.8			
FM (30°-60°)	1935.1	31.6			
FH (60°-80°)	2383.4	39.0			G2/5000
FVH (80°-90°)	142.8	2.3			G2/225
BL (0°-30°)	348.1	5.7	B1/500		
BM (30°-60°)	639.1	10.5	B1/1000		
BH (60°-80°)	282.7	4.6	B1/500		G1/500
BVH (80°-90°)	31.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
2.5°	862.9	867.3	869.7	878.1	880.2	882.8	890.0	899.4	911.6	922.5	932.0
5°	791.1	797.8	801.9	809.3	823.9	825.3	844.2	865.9	890.7	913.7	932.6
7.5°	722.9	730.4	733.8	747.4	766.6	769.7	797.5	831.7	873.0	907.9	937.1
10°	671.8	675.5	683.0	693.1	716.2	718.2	754.5	800.2	853.7	905.2	944.5
12.5°	644.0	646.1	647.8	658.6	681.3	684.3	722.2	774.1	838.5	907.3	956.7
15°	648.1	648.8	641.3	643.3	661.6	666.0	703.7	756.8	829.0	912.4	975.0
17.5°	682.3	680.0	661.6	652.2	665.0	667.0	699.9	750.0	824.6	921.8	993.9
20°	736.2	732.8	701.3	680.3	687.7	689.4	712.1	755.1	829.0	937.4	1023.5
22.5°	803.3	801.9	754.1	728.7	728.3	728.3	740.2	773.4	842.2	958.7	1054.3
25°	897.1	890.0	827.6	794.7	785.7	785.0	783.6	803.6	859.1	981.4	1090.9
27.5°	993.3	981.1	925.5	875.1	855.4	853.1	844.2	846.3	880.8	1007.2	1132.5
30°	1079.7	1071.9	1019.7	963.8	940.5	935.1	910.6	899.4	917.0	1053.6	1198.9
32.5°	1145.8	1141.0	1100.3	1049.5	1015.0	1014.0	978.4	969.3	973.7	1109.8	1274.8
35°	1199.2	1201.0	1180.3	1136.3	1096.6	1090.9	1067.2	1055.6	1042.8	1191.2	1370.3
37.5°	1272.5	1276.2	1274.8	1236.9	1188.4	1189.8	1184.4	1165.4	1131.2	1281.9	1476.4
40°	1353.1	1355.8	1355.5	1340.9	1315.4	1316.8	1314.8	1293.1	1242.0	1397.5	1594.3
42.5°	1464.5	1451.7	1418.1	1432.7	1447.6	1454.0	1467.9	1447.3	1377.1	1520.7	1705.1
45°	1589.2	1564.8	1489.0	1495.7	1551.0	1563.1	1639.7	1611.3	1523.8	1662.4	1835.5
47.5°	1667.8	1643.8	1579.7	1578.4	1651.6	1663.4	1798.9	1788.5	1657.3	1815.2	1994.7
50°	1737.9	1734.6	1662.4	1679.7	1751.2	1768.8	1972.4	1962.5	1790.4	1995.4	2168.2
52.5°	1841.9	1814.5	1756.9	1792.4	1887.0	1910.1	2144.5	2115.7	1912.7	2154.7	2336.6
55°	1888.7	1882.3	1878.9	1909.7	2039.5	2056.1	2311.8	2245.8	2017.1	2289.5	2464.6
57.5°	2013.7	2001.8	2035.4	2056.4	2219.0	2244.4	2486.7	2381.7	2108.5	2396.5	2527.0
60°	2175.6	2169.2	2200.0	2238.0	2419.5	2458.2	2685.8	2497.5	2182.1	2450.4	2492.8
62.5°	2417.5	2416.9	2411.1	2492.4	2703.8	2739.4	2914.5	2610.3	2193.6	2410.1	2315.9
65°	2764.5	2752.2	2702.1	2790.8	3057.5	3099.1	3152.7	2673.3	2124.1	2203.0	1950.0
67.5°	3127.3	3126.6	3086.0	3201.1	3565.3	3608.3	3450.4	2659.4	1931.3	1784.7	1384.9
70°	3428.1	3413.6	3465.4	3772.3	4214.1	4263.9	3711.0	2495.8	1538.4	1178.6	822.9
72.5°	3500.2	3500.9	3608.7	4212.7	4837.1	4844.9	3804.8	2022.9	1029.6	650.1	411.6
74°	3278.0	3283.7	3450.8	4234.7	4953.3	4918.0	3565.0	1589.9	696.2	424.5	296.8
75°	2992.1	2955.8	3197.4	4088.0	4832.7	4794.7	3284.1	1275.8	531.2	339.1	259.9
77.5°	1599.7	1636.6	2009.3	3050.7	3926.1	3882.4	2226.8	611.8	287.0	236.2	187.0
80°	569.5	628.1	882.8	1596.3	2517.1	2530.7	1062.8	280.5	201.9	174.1	132.1
82.5°	232.4	238.8	379.1	708.4	1278.2	1290.4	433.9	166.7	144.3	120.0	78.9
85°	90.8	93.5	167.7	318.4	545.4	581.0	150.1	88.1	88.8	68.7	40.3
87.5°	30.5	34.5	68.7	106.0	185.3	181.6	43.7	26.1	31.9	29.8	12.5
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°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
2.5°	936.7	943.1	947.6	952.3	956.7	958.1	957.1	960.1	960.4	960.7	961.1
5°	942.1	951.0	959.4	964.2	966.2	964.5	958.7	955.7	953.0	951.0	951.7
7.5°	949.6	962.2	969.9	971.9	966.5	958.7	944.5	933.3	926.2	921.5	921.1
10°	961.1	973.3	979.8	974.0	959.1	940.1	917.8	896.8	880.8	876.1	875.7
12.5°	975.7	989.6	989.2	972.3	946.2	912.4	876.1	851.7	830.0	819.2	823.6
15°	994.6	1005.1	995.3	964.8	923.5	877.1	832.4	799.2	774.8	763.3	764.0
17.5°	1016.6	1025.8	999.7	951.7	891.7	832.0	780.2	748.7	729.4	720.9	720.3
20°	1044.1	1046.8	999.7	928.6	850.7	779.6	730.1	708.1	697.2	692.8	694.1
22.5°	1073.6	1068.2	994.3	896.1	796.8	724.7	691.5	681.6	676.2	675.5	676.2
25°	1106.8	1091.6	983.1	852.1	740.6	677.2	657.9	659.6	660.6	660.6	663.0
27.5°	1147.4	1116.9	964.5	796.5	674.9	633.2	627.7	639.6	645.0	646.1	647.8
30°	1201.0	1144.7	933.6	727.0	619.0	593.5	603.0	619.0	625.1	628.7	628.1
32.5°	1264.6	1175.2	892.0	657.6	573.9	565.8	577.3	593.5	600.3	602.4	599.6
35°	1339.6	1209.8	837.1	592.5	534.6	539.3	552.9	558.0	564.1	564.1	565.4
37.5°	1420.1	1237.5	770.1	532.9	504.1	521.4	531.2	526.5	523.7	520.4	522.0
40°	1502.1	1258.2	683.0	473.9	473.6	502.8	505.4	491.9	481.1	477.7	476.0
42.5°	1573.6	1271.1	604.4	428.2	444.8	484.4	486.5	464.8	447.6	437.4	433.9
45°	1658.0	1286.0	527.5	390.2	418.0	469.9	475.0	445.8	420.4	399.1	393.7
47.5°	1773.5	1319.9	466.8	360.8	398.8	460.7	467.8	430.3	396.7	368.9	364.6
50°	1903.9	1366.3	419.8	340.8	383.8	452.6	461.4	414.4	374.7	343.9	340.4
52.5°	2023.5	1391.4	379.1	322.8	369.3	437.7	453.0	402.8	353.0	318.8	315.7
55°	2088.9	1350.7	339.1	305.2	349.3	418.4	441.1	386.9	332.0	305.6	301.1
57.5°	2097.7	1266.7	302.9	286.3	328.3	394.7	419.1	367.5	318.4	296.4	292.7
60°	2029.6	1141.4	274.8	270.7	306.9	367.9	394.3	350.6	304.6	286.3	282.5
62.5°	1860.3	1005.1	255.1	256.4	285.2	339.8	376.1	334.3	291.4	275.1	271.7
65°	1568.9	829.7	236.2	241.9	265.9	317.7	359.5	320.8	278.1	266.6	263.6
67.5°	1089.9	599.0	220.6	226.7	247.7	295.4	340.1	306.2	263.2	257.1	252.4
70°	603.4	368.6	202.2	209.4	228.7	270.4	318.4	284.2	241.6	238.8	232.1
72.5°	317.1	234.7	181.6	189.4	203.0	238.2	285.2	260.2	220.2	208.7	199.9
74°	247.7	192.5	167.7	175.9	184.9	219.2	265.6	242.9	205.0	191.4	184.6
75°	215.8	171.4	155.8	166.3	174.5	206.3	250.3	230.7	196.5	183.6	177.5
77.5°	152.5	128.4	127.4	139.9	144.3	180.9	225.7	210.1	175.2	161.6	155.8
80°	107.0	96.2	100.9	108.8	114.9	159.9	209.4	181.6	143.7	127.7	125.7
82.5°	69.8	63.0	72.2	79.2	81.3	117.9	169.0	137.9	104.7	85.0	78.9
85°	32.2	31.5	41.3	40.3	40.0	57.6	100.3	80.6	60.3	45.0	42.4
87.5°	8.1	7.8	10.2	8.5	10.2	8.8	9.2	2.3	0.3	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)