

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: P527179

Luminaire Tested: **GALN-SA2A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527179
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-SA2A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4444 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 63
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

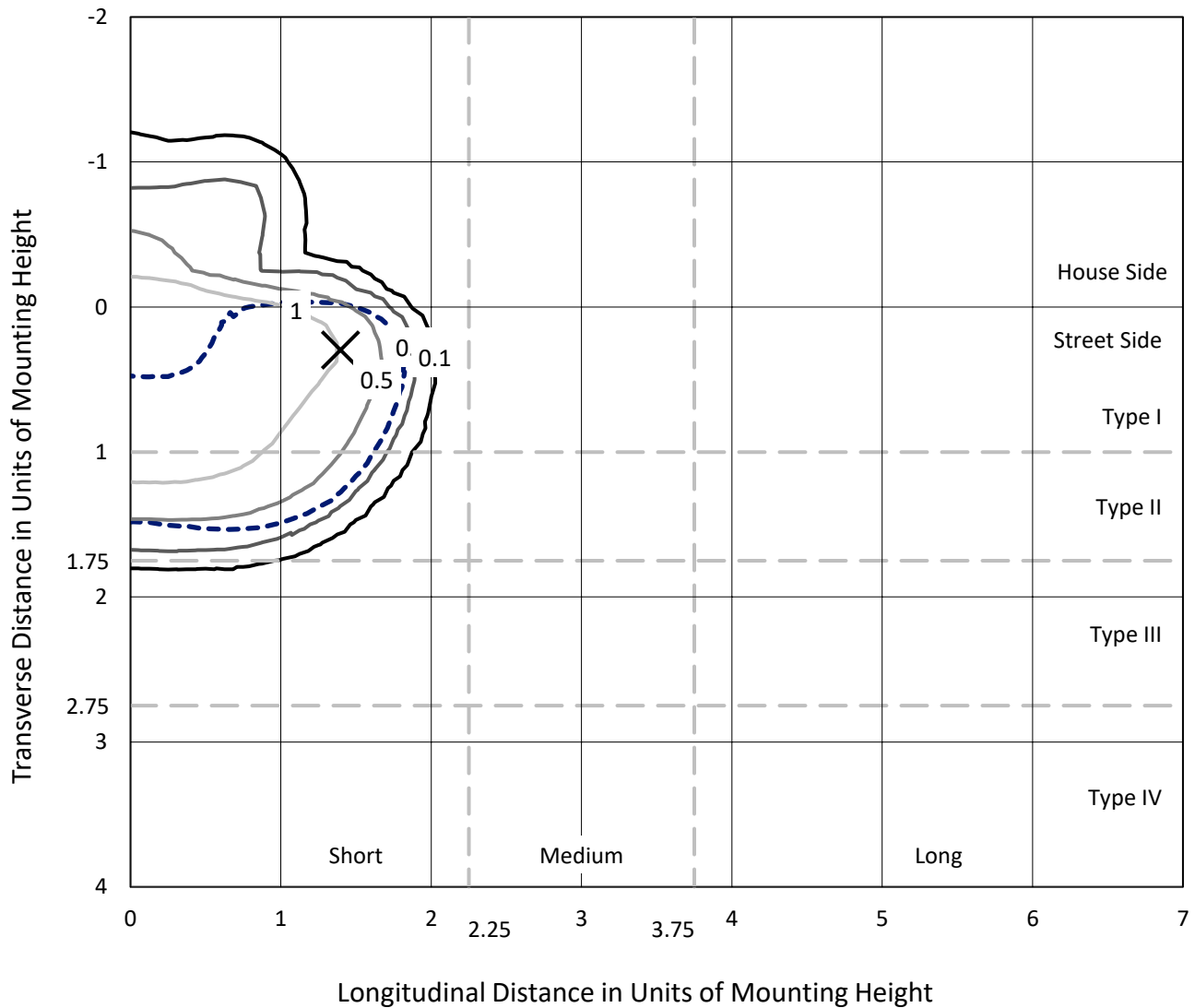


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

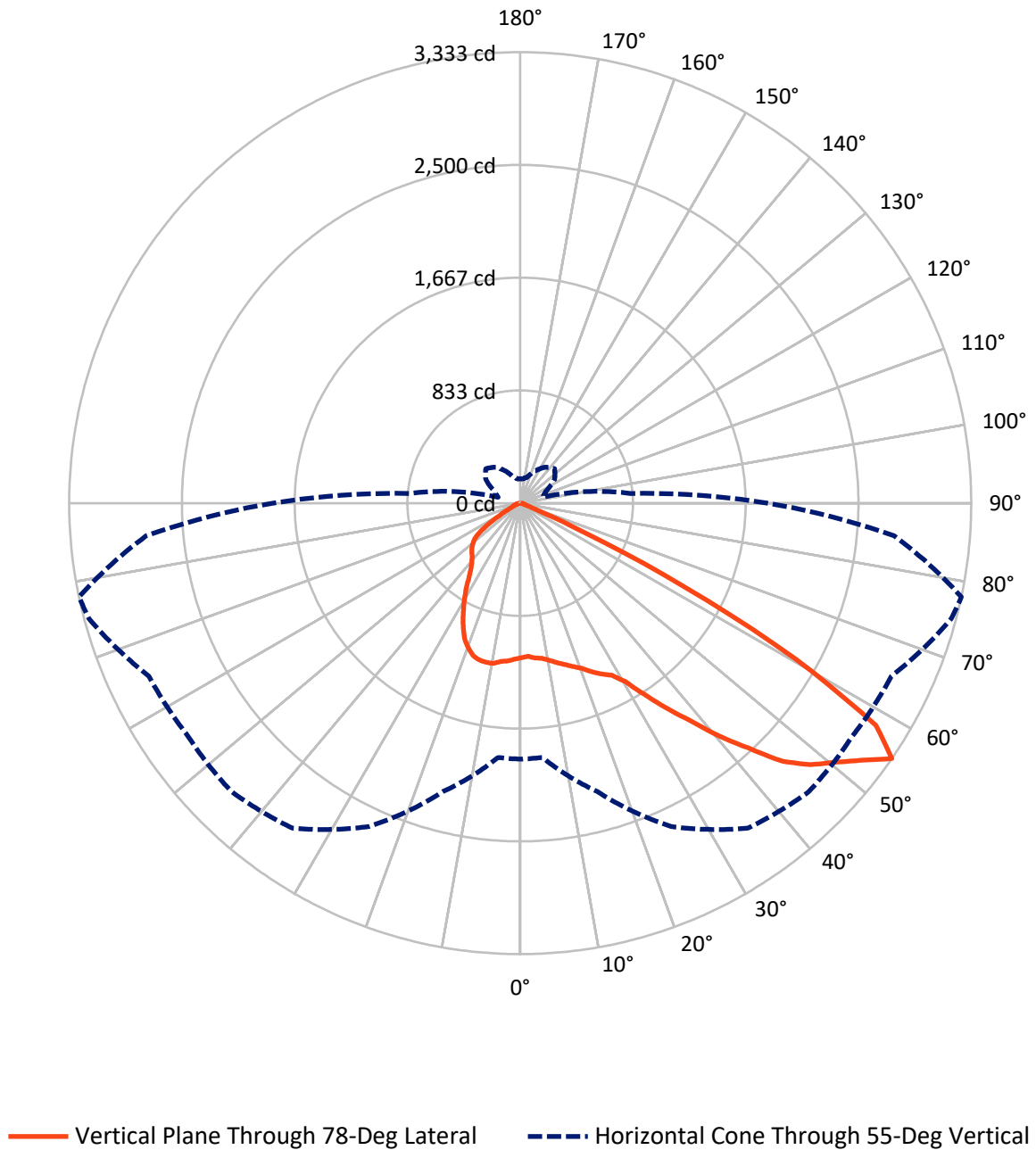


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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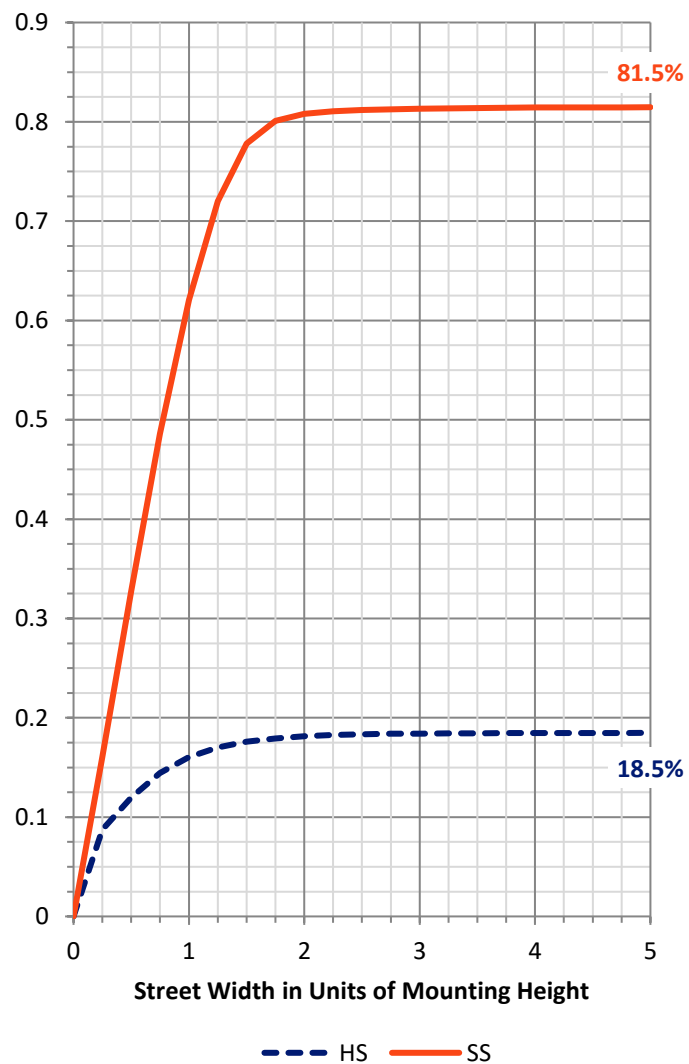
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.4	0.0	825.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3618.6	0.0	3618.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	4444.0	0.0	4444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	2.3
10°-20°	269.6	6.1
20°-30°	472.6	10.6
30°-40°	779.3	17.5
40°-50°	1133.9	25.5
50°-60°	1284.9	28.9
60°-70°	367.4	8.3
70°-80°	28.5	0.6
80°-90°	5.9	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°	4444.0	100.0
0°-180°	4444.0	100.0

Coefficient of Utilization



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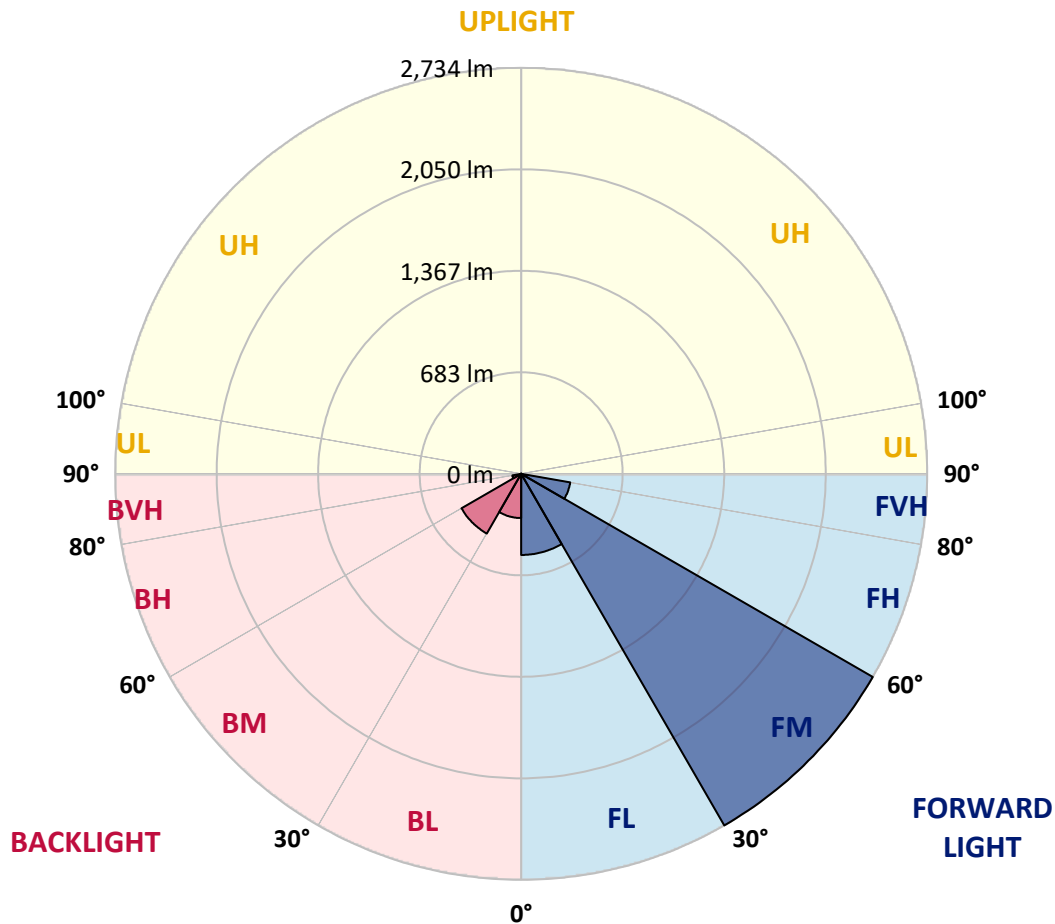
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	546.3	12.3			
FM	(30°-60°)	2733.7	61.5			
FH	(60°-80°)	335.6	7.6			G0/660
FVH	(80°-90°)	2.9	0.1			G0/10
BL	(0°-30°)	297.8	6.7	B1/500		
BM	(30°-60°)	464.3	10.4	B1/1000		
BH	(60°-80°)	60.3	1.4	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6
2.5°	1074.2	1084.6	1086.1	1098.9	1098.1	1119.5	1125.9	1126.7	1141.0	1133.8	1152.1
5°	1044.0	1038.5	1036.1	1058.3	1064.7	1083.8	1099.6	1109.2	1138.6	1148.9	1168.0
7.5°	1017.0	1017.0	1018.6	1038.5	1036.1	1060.7	1077.4	1106.8	1149.7	1158.4	1181.5
10°	990.8	981.3	993.2	1013.8	1031.3	1042.4	1077.4	1105.2	1155.3	1180.7	1212.5
12.5°	977.3	982.1	983.6	998.7	1017.8	1051.2	1070.3	1116.3	1195.0	1210.1	1244.3
15°	1062.3	1052.8	1029.7	1016.2	1032.1	1048.0	1095.7	1142.6	1215.7	1237.1	1275.2
17.5°	1160.8	1152.9	1133.8	1097.3	1061.5	1090.9	1128.3	1171.2	1237.9	1269.7	1326.1
20°	1289.5	1276.8	1257.8	1186.3	1155.3	1123.5	1163.2	1214.1	1274.4	1303.1	1361.1
22.5°	1442.9	1442.9	1400.0	1313.4	1249.0	1218.8	1235.5	1264.9	1315.0	1353.9	1411.1
25°	1602.6	1597.8	1558.9	1469.1	1360.3	1324.5	1343.6	1364.2	1377.7	1399.2	1437.3
27.5°	1785.3	1757.5	1708.3	1609.0	1512.8	1443.7	1464.3	1446.1	1429.4	1440.5	1495.3
30°	1909.3	1926.8	1864.0	1768.7	1678.1	1601.0	1605.0	1589.1	1512.8	1528.7	1561.3
32.5°	2038.0	2049.1	2014.2	1961.7	1871.2	1781.4	1748.8	1735.3	1678.1	1685.2	1653.4
35°	2145.3	2166.7	2135.7	2112.7	2086.5	2014.2	1924.4	1968.1	1875.9	1858.4	1775.8
37.5°	2243.8	2237.4	2274.0	2250.2	2244.6	2193.7	2095.2	2104.0	2042.0	2038.0	1942.7
40°	2332.0	2333.6	2383.6	2394.8	2372.5	2281.9	2138.9	2208.0	2258.1	2262.9	2140.5
42.5°	2405.1	2426.5	2469.4	2559.2	2525.9	2374.9	2184.2	2259.7	2445.6	2475.0	2328.0
45°	2468.6	2512.3	2565.6	2645.8	2626.8	2506.8	2297.0	2366.2	2645.8	2722.9	2504.4
47.5°	2472.6	2529.8	2587.8	2707.0	2730.8	2577.5	2413.8	2534.6	2804.7	2888.2	2633.1
50°	2456.7	2486.9	2602.9	2732.4	2786.5	2692.7	2577.5	2676.0	2958.9	3011.3	2698.3
52.5°	2268.4	2291.5	2524.3	2756.3	2886.6	2823.0	2794.4	2873.1	3116.2	3155.1	2759.5
55°	1891.0	1887.0	2207.2	2636.3	2932.7	3016.1	2998.6	3026.4	3298.2	3333.1	2774.5
57.5°	1293.5	1365.8	1642.3	2195.3	2650.6	2970.8	2989.1	2943.0	3086.0	3099.5	2418.6
60°	697.6	727.8	950.3	1465.1	2018.1	2421.0	2468.6	2385.2	2374.1	2336.0	1726.5
62.5°	277.3	292.4	418.7	725.4	1099.6	1471.5	1574.0	1539.8	1466.7	1366.6	893.9
65°	131.9	141.4	208.2	339.3	487.9	613.4	715.9	747.7	551.4	496.6	294.8
67.5°	89.8	96.9	151.8	193.9	174.0	182.0	236.8	220.1	129.5	110.4	81.8
70°	68.3	73.1	121.6	131.9	77.9	54.8	61.2	57.2	53.2	54.0	53.2
72.5°	48.5	52.4	89.0	77.9	34.2	25.4	32.6	38.9	38.9	38.9	38.1
75°	29.4	33.4	51.6	30.2	13.5	13.5	20.7	26.2	27.8	28.6	27.0
77.5°	15.1	19.1	17.5	8.7	8.7	10.3	15.1	18.3	19.9	19.9	19.1
80°	3.2	3.2	3.2	4.8	8.7	11.1	15.1	16.7	19.1	19.1	17.5
82.5°	0.0	0.8	2.4	4.8	7.9	10.3	14.3	16.7	19.1	19.9	18.3
85°	0.0	0.8	1.6	3.2	5.6	6.4	5.6	4.8	4.8	4.8	4.8
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6	1142.6
2.5°	1153.7	1156.1	1152.1	1151.3	1148.1	1157.7	1134.6	1129.0	1143.3	1129.8	1133.0
5°	1168.8	1174.3	1167.2	1155.3	1137.8	1110.8	1087.7	1057.5	1043.2	1032.9	1031.3
7.5°	1179.9	1183.9	1176.7	1138.6	1086.1	1017.8	967.0	929.6	900.2	891.5	877.2
10°	1225.2	1226.0	1190.2	1106.0	1003.5	913.7	835.9	778.7	749.3	731.0	723.0
12.5°	1255.4	1253.8	1181.5	1041.6	905.0	785.8	696.8	627.7	600.7	591.9	586.4
15°	1293.5	1284.8	1160.8	975.7	777.9	649.1	568.9	521.2	518.8	513.3	518.8
17.5°	1323.7	1299.1	1130.6	855.7	656.3	534.7	482.3	485.5	491.8	497.4	498.2
20°	1373.0	1322.1	1061.5	750.8	543.5	458.5	457.7	472.0	487.9	494.2	500.6
22.5°	1410.3	1331.7	987.6	638.8	451.3	427.5	441.0	462.4	474.3	480.7	490.2
25°	1423.8	1305.4	889.1	526.8	406.8	413.2	433.8	448.1	463.2	470.4	466.4
27.5°	1437.3	1291.9	771.5	433.8	383.0	403.6	421.1	435.4	440.2	449.7	456.1
30°	1469.9	1245.1	665.8	375.0	371.1	397.3	410.0	414.8	427.5	433.0	433.0
32.5°	1496.1	1226.8	553.8	347.2	369.5	400.5	402.0	402.0	403.6	399.7	398.1
35°	1550.2	1164.0	453.7	330.5	368.7	401.2	405.2	391.7	355.2	340.9	336.9
37.5°	1616.9	1123.5	379.8	326.6	374.2	410.8	417.1	366.3	318.6	295.6	291.6
40°	1697.9	1094.9	331.3	325.0	386.9	433.0	414.0	346.4	284.4	251.1	249.5
42.5°	1792.5	1068.7	298.7	324.2	402.8	456.1	410.8	329.7	249.5	227.2	230.4
45°	1868.0	1054.4	276.5	318.6	408.4	469.6	413.2	300.3	235.2	220.9	222.5
47.5°	1926.8	1024.2	258.2	309.1	407.6	474.3	391.7	288.4	228.0	232.0	236.0
50°	1928.4	983.6	235.2	288.4	395.7	465.6	367.1	277.3	226.4	243.1	251.1
52.5°	1906.9	926.4	210.6	259.0	367.9	435.4	344.8	272.5	219.3	217.7	227.2
55°	1830.6	819.2	169.2	209.8	310.7	359.1	325.0	263.8	197.8	179.6	181.2
57.5°	1479.4	587.2	124.7	150.2	220.1	263.0	293.2	259.8	178.0	152.6	153.3
60°	916.1	332.9	91.4	102.5	135.9	159.7	237.6	241.5	158.9	128.7	127.1
62.5°	470.4	164.5	70.7	72.3	83.4	93.8	162.9	202.6	143.8	122.4	122.4
65°	157.3	81.0	62.0	55.6	55.6	58.0	98.5	140.6	121.6	102.5	102.5
67.5°	67.5	60.4	54.0	48.5	44.5	42.1	55.6	81.8	90.6	77.9	74.7
70°	52.4	50.9	46.9	40.5	35.0	31.8	32.6	42.1	51.6	50.1	48.5
72.5°	38.9	38.9	37.3	31.8	27.0	23.0	21.5	22.2	24.6	25.4	26.2
75°	27.0	27.8	27.8	24.6	19.9	16.7	14.3	11.9	9.5	7.9	7.2
77.5°	18.3	19.1	20.7	18.3	15.1	11.1	8.7	6.4	4.0	1.6	1.6
80°	15.9	18.3	19.9	18.3	15.9	11.9	8.7	4.8	2.4	0.0	0.0
82.5°	16.7	18.3	20.7	17.5	15.1	11.1	8.7	5.6	2.4	0.8	0.0
85°	4.0	4.0	4.8	5.6	7.2	7.9	6.4	4.0	2.4	0.8	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)