

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: P451285

Luminaire Tested: **GALN-SA2A-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6704 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

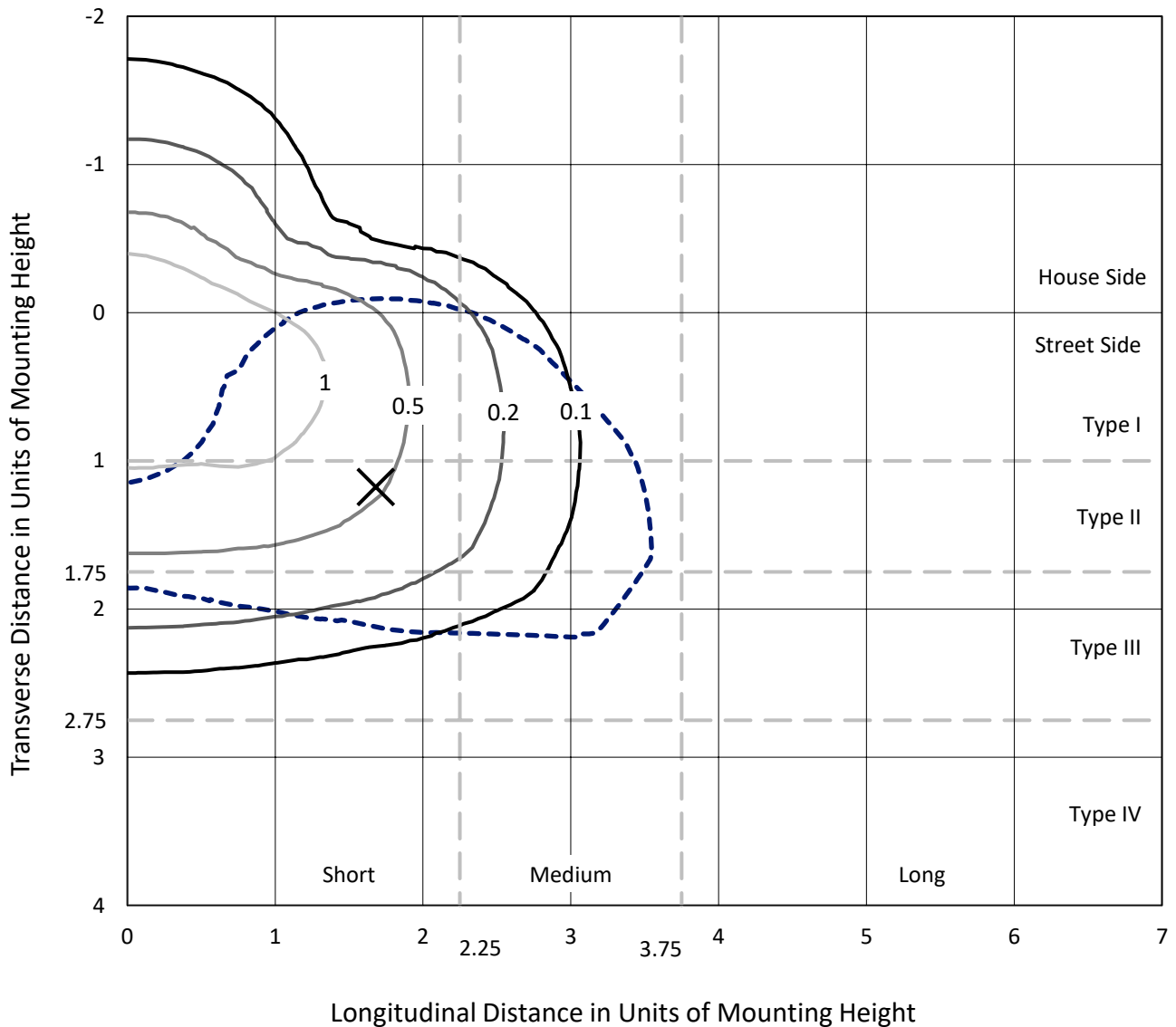
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

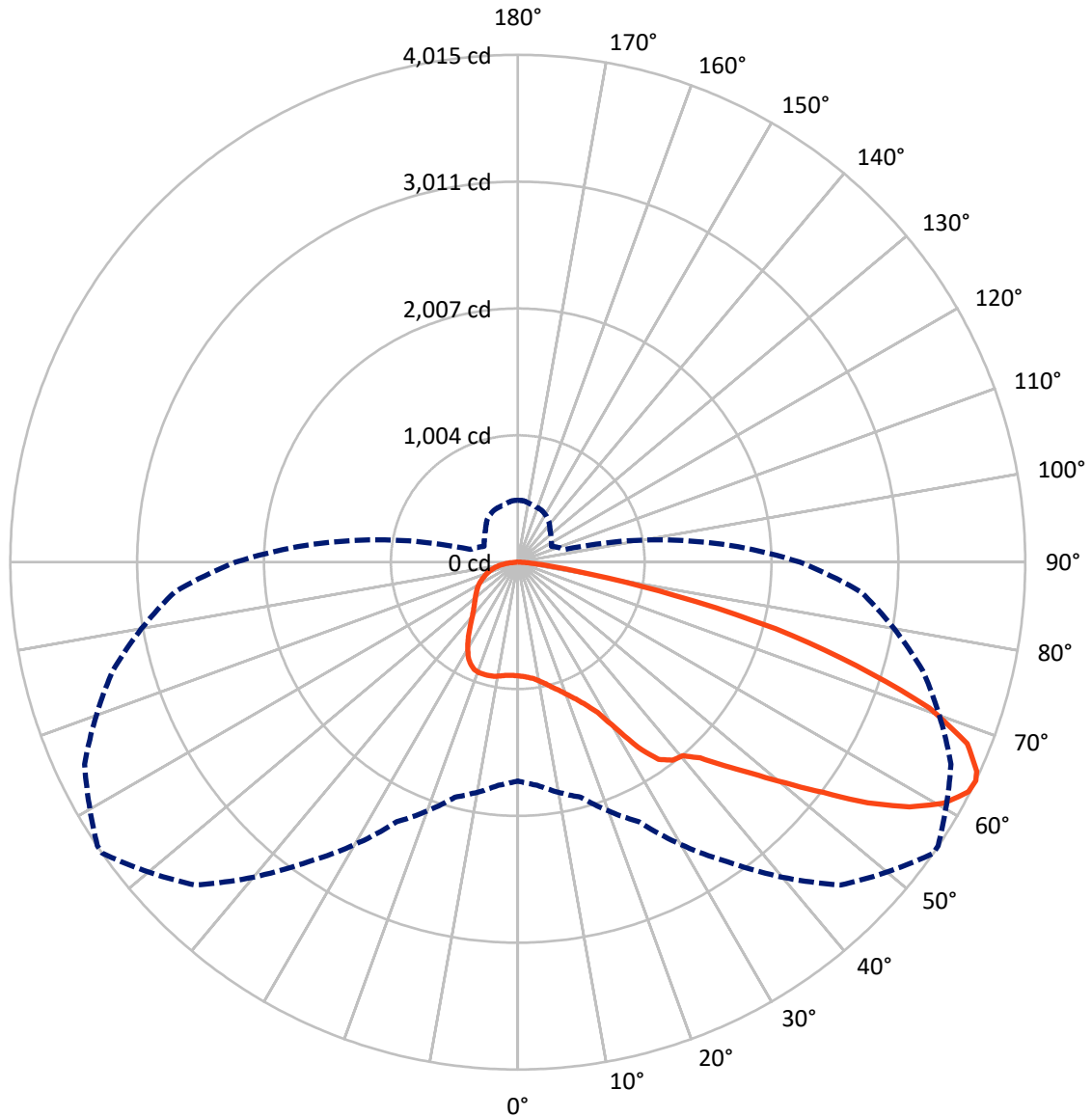
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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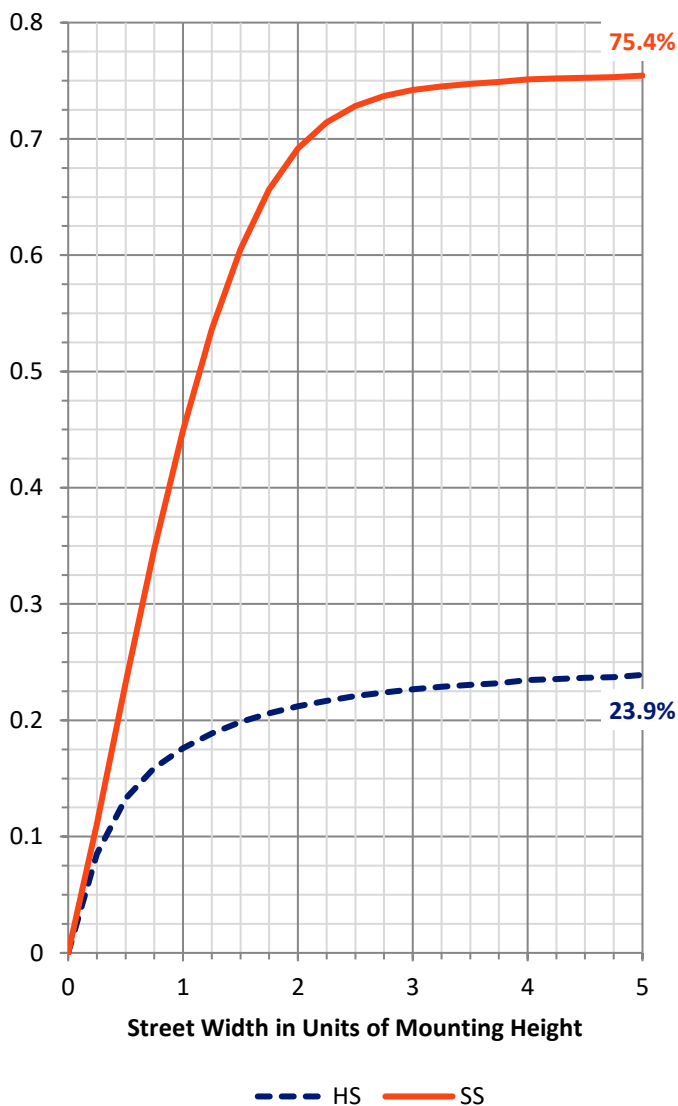
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.5	0.0	1628.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5075.5	0.0	5075.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	6704.0	0.0	6704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.3
10°-20°	276.1	4.1
20°-30°	491.5	7.3
30°-40°	756.2	11.3
40°-50°	1072.0	16.0
50°-60°	1551.7	23.1
60°-70°	1605.8	24.0
70°-80°	752.0	11.2
80°-90°	111.3	1.7
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°	6704.0	100.0
0°-180°	6704.0	100.0

Coefficient of Utilization



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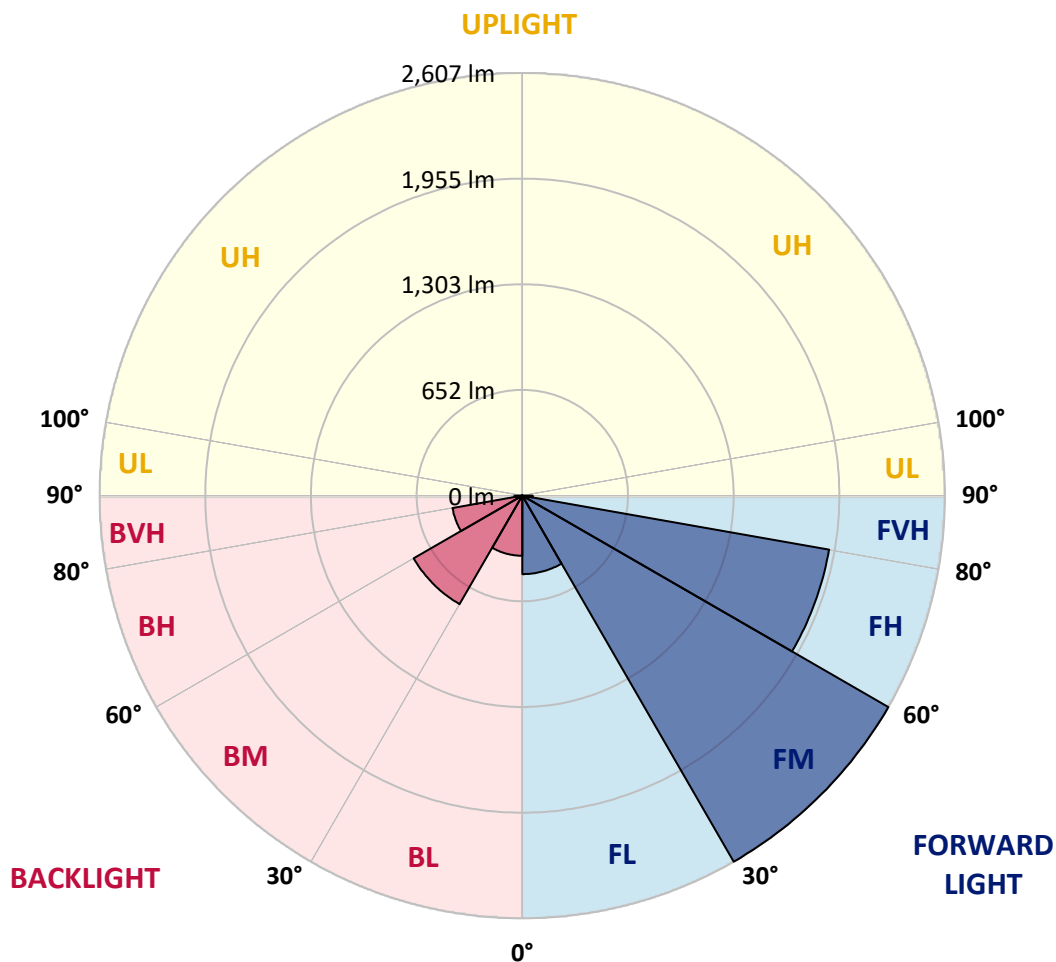
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.1	7.2			
FM	(30°-60°)	2606.7	38.9			
FH	(60°-80°)	1920.9	28.7			G2/5000
FVH	(80°-90°)	63.7	1.0			G1/100
BL	(0°-30°)	370.9	5.5	B1/500		
BM	(30°-60°)	773.1	11.5	B1/1000		
BH	(60°-80°)	436.9	6.5	B1/500		G1/500
BVH	(80°-90°)	47.6	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	909.6	909.2	910.3	909.2	909.9	907.3	906.2	906.9	905.8	904.0	900.6
5°	920.8	920.4	920.8	919.3	920.0	918.5	915.9	916.7	914.8	910.7	905.8
7.5°	939.8	938.3	938.3	938.0	936.5	934.2	932.4	931.6	929.7	924.5	917.0
10°	964.5	964.5	964.9	961.9	963.7	959.6	957.8	957.4	951.0	944.3	933.9
12.5°	997.0	998.9	997.8	996.3	995.5	994.0	987.7	989.2	982.1	970.5	957.8
15°	1037.4	1040.4	1038.5	1037.7	1035.9	1030.3	1027.7	1026.5	1017.2	1000.4	983.6
17.5°	1090.8	1087.1	1085.6	1083.7	1075.9	1071.7	1067.3	1066.5	1058.3	1038.5	1012.3
20°	1137.5	1142.7	1139.8	1137.9	1130.0	1122.2	1118.8	1117.7	1110.6	1088.9	1047.1
22.5°	1193.2	1194.3	1195.4	1191.0	1187.2	1181.2	1175.3	1173.4	1170.8	1148.4	1097.2
25°	1252.6	1257.1	1253.4	1248.9	1244.4	1244.0	1249.6	1248.9	1247.8	1226.1	1163.7
27.5°	1349.4	1353.5	1354.6	1349.8	1332.6	1334.1	1346.8	1350.9	1368.1	1332.2	1249.2
30°	1404.0	1408.1	1417.4	1435.7	1463.0	1486.9	1517.6	1526.9	1543.3	1475.7	1350.9
32.5°	1437.6	1439.1	1455.9	1489.9	1571.7	1661.1	1744.4	1747.8	1758.2	1663.3	1443.9
35°	1490.7	1491.8	1505.2	1542.6	1638.6	1787.4	1916.3	1920.4	1911.8	1721.6	1487.3
37.5°	1556.0	1559.0	1567.6	1598.7	1713.4	1893.1	1987.7	1984.7	1908.4	1767.9	1563.9
40°	1651.3	1651.3	1641.3	1683.1	1792.2	1953.7	2012.7	2007.5	1987.3	1902.1	1680.5
42.5°	1735.4	1733.9	1757.8	1786.2	1890.9	2047.1	2117.7	2126.3	2159.6	2070.6	1813.1
45°	1844.9	1851.6	1865.1	1916.7	2058.7	2206.6	2297.8	2306.0	2353.1	2269.1	1968.2
47.5°	1955.5	1957.8	2000.0	2068.8	2266.4	2423.0	2497.8	2511.2	2554.2	2501.1	2135.3
50°	2034.0	2055.3	2122.9	2231.3	2480.6	2686.8	2745.1	2761.2	2837.1	2753.7	2330.0
52.5°	2117.0	2137.9	2220.5	2385.6	2726.5	2956.6	3028.4	3039.2	3118.1	3009.3	2529.1
55°	2188.0	2207.4	2301.2	2522.4	2922.3	3232.1	3362.1	3349.4	3387.1	3206.3	2682.7
57.5°	2199.5	2215.2	2333.3	2609.9	3069.5	3468.2	3654.7	3662.2	3618.5	3353.5	2809.4
60°	2109.9	2142.0	2277.6	2600.5	3135.6	3632.7	3872.9	3878.2	3754.1	3429.0	2859.9
62.5°	1951.0	1947.7	2111.7	2450.3	3043.0	3670.0	4001.5	3995.9	3807.2	3392.7	2810.9
64°	1731.7	1772.0	1925.3	2265.7	2893.5	3612.5	4014.9	4011.9	3781.8	3317.3	2727.6
65°	1597.9	1595.7	1747.0	2114.7	2744.8	3525.8	3991.0	3986.9	3728.7	3249.6	2662.9
67.5°	1153.6	1158.8	1308.3	1631.9	2231.3	3186.8	3835.2	3819.9	3519.4	3025.4	2417.0
70°	698.8	701.8	819.1	1082.6	1601.6	2576.2	3457.0	3457.8	3199.2	2690.6	2057.2
72.5°	368.1	375.9	423.0	614.7	972.7	1807.5	2804.6	2871.1	2746.6	2296.3	1625.2
75°	204.8	205.9	239.2	303.1	496.3	1011.6	2108.0	2127.0	2174.5	1848.3	1201.8
77.5°	156.2	158.4	168.9	195.8	270.2	469.0	1275.8	1371.4	1532.5	1303.1	685.7
80°	126.7	128.9	137.9	154.0	179.7	222.3	592.7	644.2	820.3	578.5	267.6
82.5°	98.7	97.2	108.7	119.2	130.8	131.5	243.3	269.1	334.1	248.9	115.8
85°	73.2	73.2	82.6	80.3	84.5	77.0	107.2	118.5	133.8	105.8	53.8
87.5°	29.1	32.1	54.2	48.6	37.7	30.3	39.6	41.9	46.3	41.5	22.4
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°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	901.0	902.1	899.5	897.6	896.9	895.7	894.6	895.0	896.5	898.0	897.6
5°	905.5	905.8	901.3	899.1	897.6	896.1	896.1	897.2	900.2	902.5	902.5
7.5°	916.7	916.7	910.3	906.2	904.0	901.3	900.6	901.0	903.2	906.2	906.6
10°	934.2	932.7	924.5	918.2	914.0	907.7	902.1	899.1	900.2	902.1	902.1
12.5°	955.5	951.4	941.0	932.4	922.3	910.3	898.7	892.7	892.4	894.2	893.5
15°	978.3	973.8	959.3	943.6	926.0	908.4	894.6	886.0	879.3	877.4	881.5
17.5°	1004.9	995.5	975.3	953.7	927.5	904.7	883.0	865.5	853.5	850.1	851.3
20°	1037.0	1024.7	997.4	963.4	926.4	891.3	857.6	834.1	814.6	808.7	809.4
22.5°	1081.5	1060.2	1020.2	968.2	917.0	865.8	819.1	788.5	764.9	755.6	761.2
25°	1131.9	1108.7	1041.9	967.1	892.7	825.1	773.5	733.6	712.3	698.4	701.4
27.5°	1201.4	1160.3	1065.0	957.0	858.0	775.4	715.6	677.9	658.4	651.3	654.7
30°	1290.4	1227.2	1090.1	929.7	803.1	712.6	657.3	632.7	621.1	612.1	615.1
32.5°	1354.6	1274.3	1095.7	883.8	743.6	655.5	617.7	599.4	586.7	578.1	580.0
35°	1400.6	1314.3	1093.0	827.4	681.6	608.4	586.3	571.4	550.8	532.1	528.8
37.5°	1462.3	1364.3	1074.0	765.7	620.3	576.6	560.9	533.3	503.7	478.7	477.6
40°	1556.8	1423.0	1033.3	693.2	568.0	553.1	534.0	498.1	466.4	446.2	444.7
42.5°	1654.3	1477.2	977.9	617.0	525.0	528.4	505.2	469.7	450.3	437.2	435.7
45°	1773.5	1535.9	918.2	550.8	493.3	505.2	480.2	459.6	448.1	439.5	437.2
47.5°	1902.5	1596.0	850.9	491.4	466.4	483.9	469.7	460.4	454.0	448.1	445.4
50°	2041.5	1663.3	787.7	443.6	442.1	461.9	468.6	465.2	461.5	459.6	457.4
52.5°	2193.9	1732.1	734.7	409.9	420.8	446.2	469.0	471.6	471.6	470.5	469.0
55°	2297.1	1779.9	680.9	382.7	399.1	433.5	468.2	478.3	482.1	480.6	479.1
57.5°	2373.3	1806.0	613.2	359.1	380.8	421.1	464.1	479.1	482.8	484.7	483.9
60°	2389.0	1781.8	524.7	334.5	361.0	403.2	449.2	467.9	472.7	484.3	485.4
62.5°	2318.4	1707.0	436.5	310.2	336.7	375.9	429.0	455.2	464.9	482.8	484.7
64°	2231.7	1623.3	387.5	294.8	321.0	360.6	418.9	451.8	464.5	488.4	489.9
65°	2168.2	1562.4	356.9	285.1	310.9	350.5	413.3	452.9	467.9	497.0	499.3
67.5°	1934.2	1352.8	295.2	262.3	287.0	333.3	414.4	462.3	467.1	500.4	500.0
70°	1600.5	1077.0	247.4	241.4	263.8	319.5	409.9	447.3	447.7	469.7	464.5
72.5°	1198.4	796.0	214.5	219.7	238.0	286.6	387.1	427.1	420.8	423.8	418.5
75°	823.2	526.5	184.6	196.6	211.1	253.4	355.0	387.9	377.8	374.1	370.3
77.5°	439.5	291.1	153.6	173.8	183.5	219.0	309.8	341.6	331.1	316.5	311.7
80°	177.9	137.1	123.7	143.9	149.5	176.4	257.8	277.7	269.8	244.4	236.2
82.5°	89.3	82.2	97.2	113.2	113.6	125.9	191.7	210.4	192.8	161.8	154.7
85°	46.7	48.2	66.9	79.6	70.3	68.0	115.1	127.4	117.0	101.6	91.6
87.5°	16.8	19.4	35.1	34.8	24.7	13.1	25.4	12.3	6.7	4.1	5.2
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)