

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: P647845

Luminaire Tested: **GALN-SA3A-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647845
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-SA3A-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10750.6 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

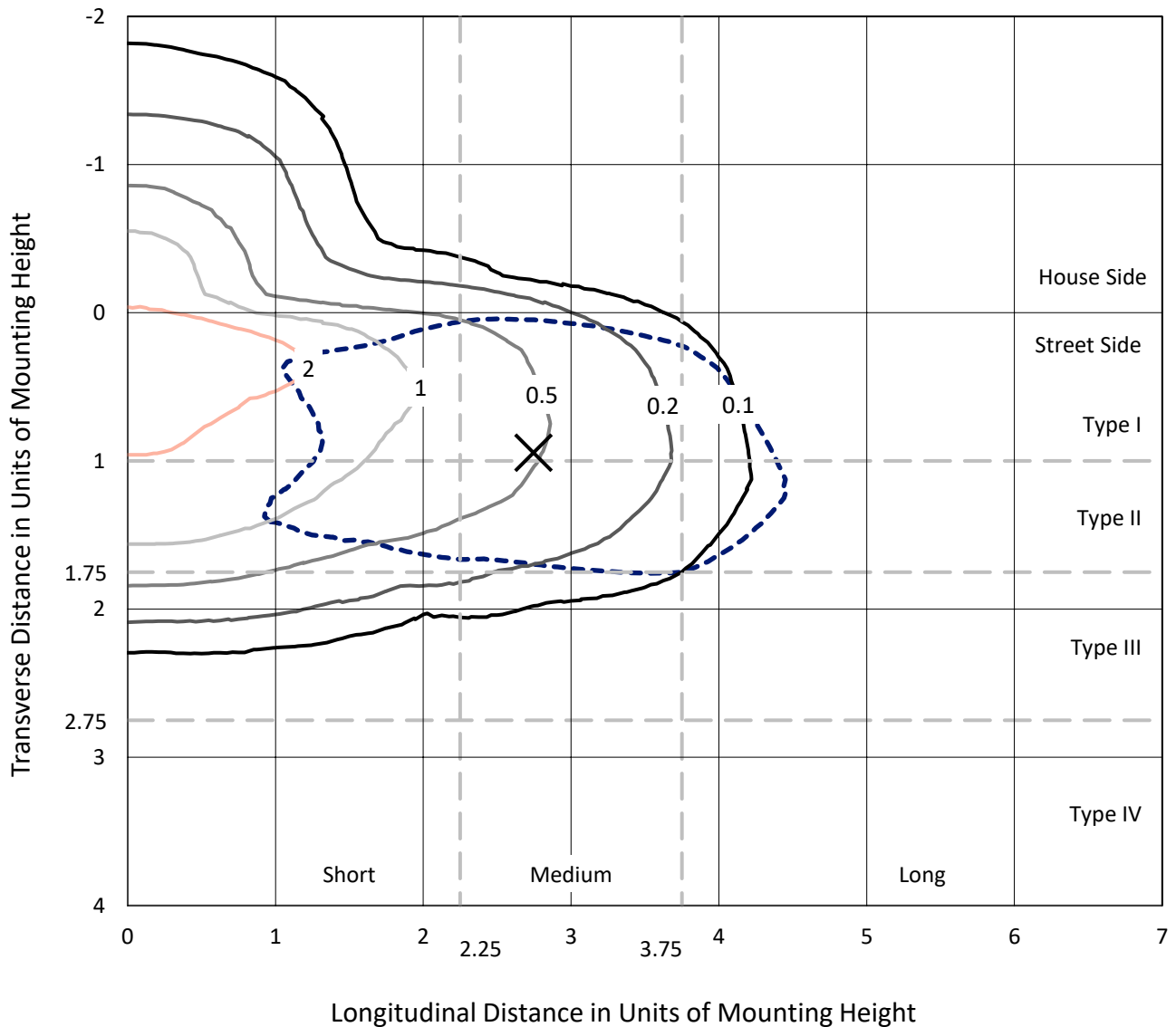
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

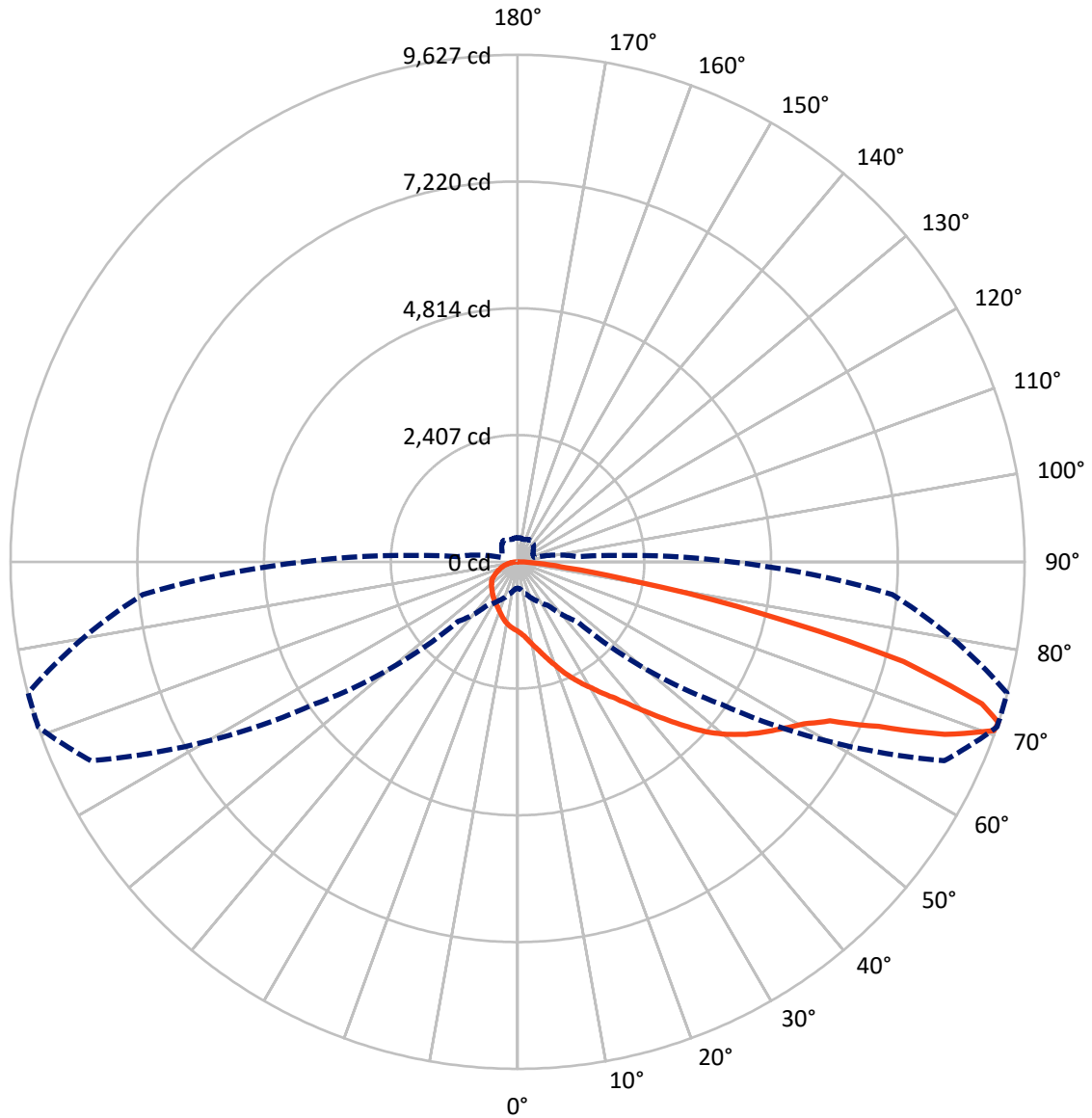
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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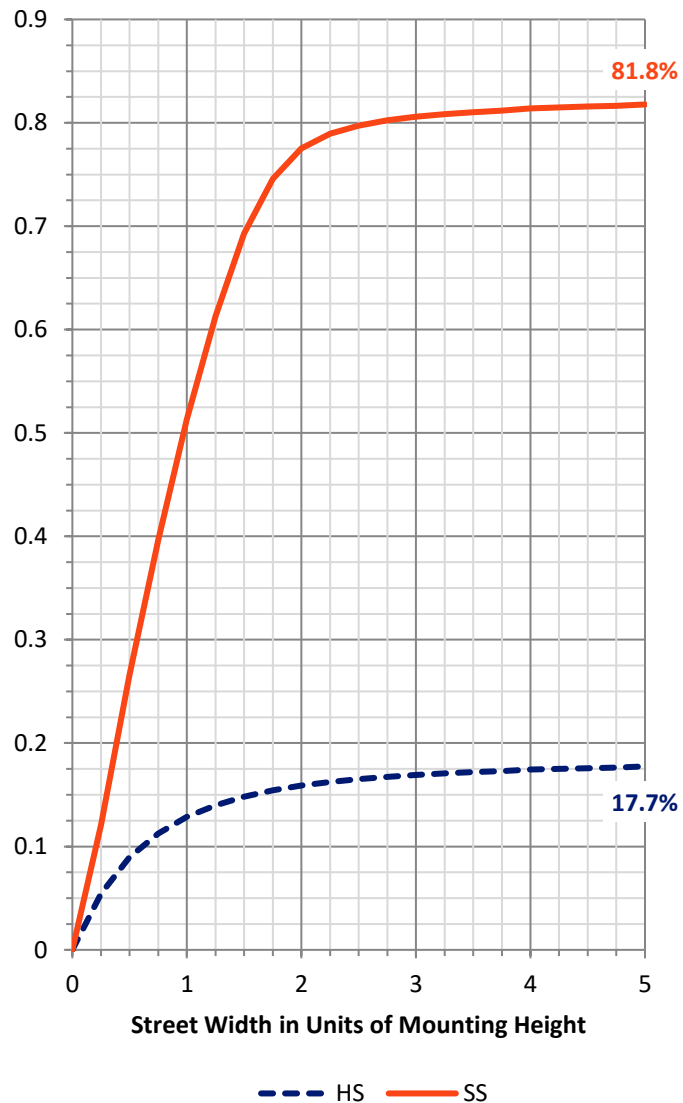
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.5	0.0	1933.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	8817.1	0.0	8817.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	10750.6	0.0	10750.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.2
10°-20°	430.4	4.0
20°-30°	752.2	7.0
30°-40°	1118.8	10.4
40°-50°	1648.4	15.3
50°-60°	2307.7	21.5
60°-70°	2581.1	24.0
70°-80°	1576.7	14.7
80°-90°	202.8	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°	10750.6	100.0
0°-180°	10750.6	100.0

Coefficient of Utilization

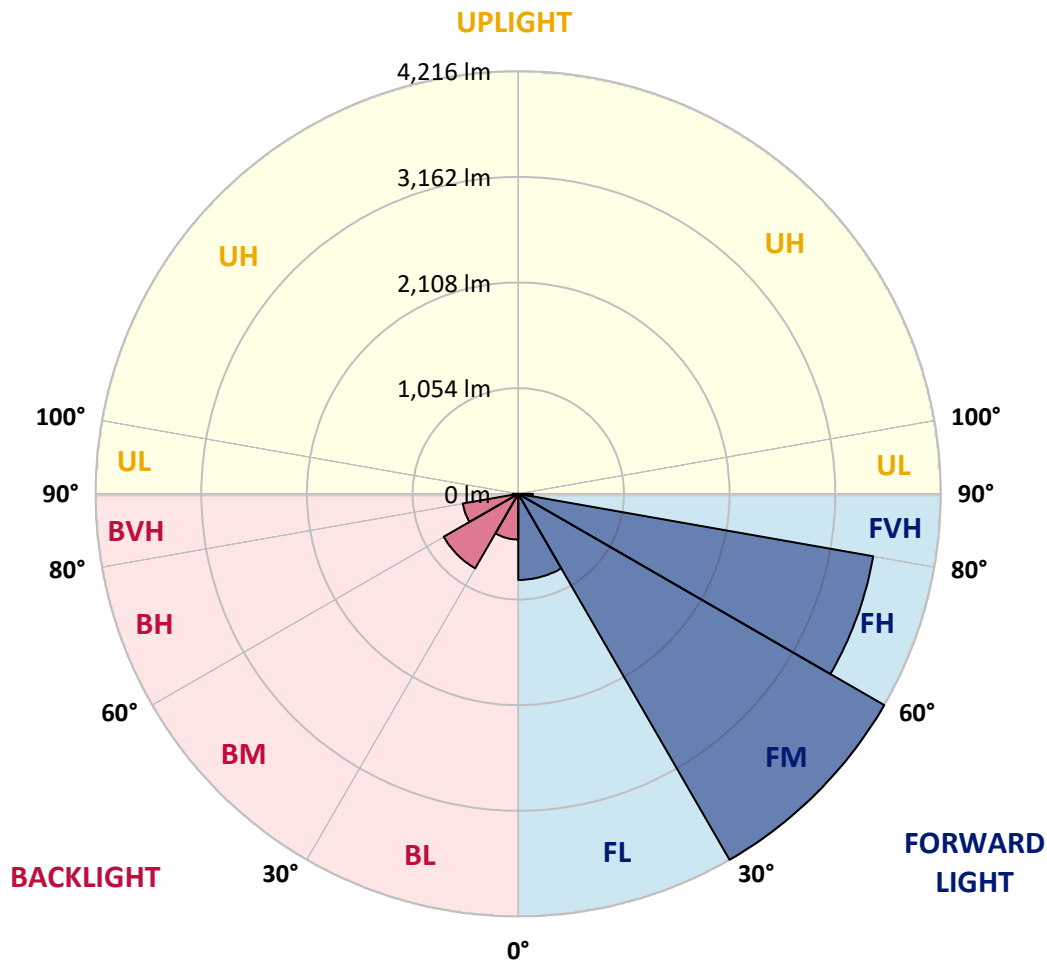


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.0	8.0			
FM (30°-60°)	4216.2	39.2			
FH (60°-80°)	3596.0	33.4			G2/5000
FVH (80°-90°)	145.9	1.4			G2/225
BL (0°-30°)	456.1	4.2	B1/500		
BM (30°-60°)	858.7	8.0	B1/1000		
BH (60°-80°)	561.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1464.8	1457.7	1458.3	1448.2	1435.2	1421.1	1400.9	1383.2	1369.1	1360.8	1336.6
5°	1623.2	1616.0	1607.2	1585.3	1575.9	1541.0	1496.7	1456.5	1425.8	1408.6	1360.2
7.5°	1751.3	1749.6	1747.2	1734.8	1710.6	1662.2	1624.3	1554.6	1509.1	1476.6	1393.9
10°	1830.5	1833.5	1835.3	1837.6	1827.6	1802.2	1750.2	1662.2	1604.2	1562.9	1437.6
12.5°	1870.7	1873.6	1883.7	1905.6	1919.1	1916.2	1873.6	1787.4	1707.6	1653.3	1484.3
15°	1895.5	1900.3	1918.0	1946.9	1992.4	2021.4	2000.7	1920.9	1833.5	1769.1	1539.8
17.5°	1922.7	1928.1	1947.6	1988.9	2048.6	2111.2	2133.7	2065.1	1969.9	1893.1	1601.9
20°	1938.1	1945.1	1972.9	2027.3	2097.0	2188.0	2262.5	2226.4	2122.4	2037.4	1673.3
22.5°	1962.9	1968.8	1992.4	2050.4	2133.7	2247.7	2391.3	2383.6	2292.0	2182.1	1752.0
25°	2030.2	2039.7	2051.5	2086.4	2166.7	2308.5	2498.2	2551.4	2456.3	2333.3	1824.0
27.5°	2157.3	2165.0	2164.4	2169.1	2214.6	2361.1	2590.9	2717.4	2619.4	2486.4	1893.8
30°	2302.0	2305.0	2307.3	2296.7	2306.8	2414.9	2676.1	2881.7	2783.6	2643.6	1954.6
32.5°	2478.1	2484.1	2463.9	2436.8	2428.5	2494.6	2746.4	3045.9	2978.0	2803.1	2014.9
35°	2686.1	2701.5	2660.7	2612.9	2579.2	2609.3	2841.0	3213.7	3177.1	3007.0	2094.7
37.5°	2923.6	2942.6	2904.8	2810.8	2762.9	2771.2	2964.4	3421.2	3428.8	3239.2	2213.4
40°	3118.1	3142.9	3144.1	3011.1	2938.4	2947.8	3121.0	3644.6	3732.6	3526.3	2353.5
42.5°	3246.2	3270.5	3295.9	3217.9	3141.7	3195.4	3303.6	3886.7	4074.1	3875.0	2549.1
45°	3386.9	3408.8	3423.0	3387.5	3345.0	3484.4	3524.0	4144.4	4438.0	4264.4	2762.9
47.5°	3550.0	3574.2	3587.8	3554.1	3538.1	3737.9	3761.5	4384.9	4826.9	4642.5	2999.3
50°	3767.4	3785.7	3778.7	3757.4	3753.9	3932.3	3989.6	4610.0	5147.7	5049.6	3244.5
52.5°	4038.0	4059.9	4067.6	4037.5	4023.8	4071.1	4173.3	4815.1	5439.6	5399.4	3506.3
55°	4201.7	4236.6	4353.6	4400.9	4433.3	4250.8	4371.3	5041.3	5701.3	5768.1	3787.5
57.5°	3992.0	4036.8	4298.6	4535.0	4840.4	4699.8	4652.0	5277.7	5963.1	6125.6	4124.3
60°	3480.3	3490.3	3827.7	4263.1	4877.7	5277.1	5237.5	5653.5	6246.7	6486.1	4568.0
62.5°	2414.3	2435.6	2834.5	3529.3	4418.0	5485.1	6233.7	6302.3	6653.2	7025.5	5218.6
65°	1245.0	1217.2	1580.6	2218.2	3330.7	4991.2	7040.9	7495.3	7534.8	7869.2	6134.5
67.5°	766.4	778.8	948.9	1295.2	1969.4	3627.4	6956.3	8952.9	8744.4	8905.1	6984.8
70°	575.5	590.9	707.8	886.3	1200.7	2073.9	5594.4	9306.3	9597.5	9556.2	7243.5
71°	500.5	516.4	638.1	806.6	1008.7	1600.7	4713.4	8936.4	9627.1	9620.0	7146.0
72.5°	426.6	436.7	531.8	683.1	850.3	1122.0	3541.1	8014.6	9216.5	9452.2	6798.0
75°	335.0	342.7	385.2	521.2	669.5	689.0	1900.3	6008.6	7569.7	8018.8	5659.4
77.5°	273.0	278.3	300.2	387.0	516.4	488.0	996.8	3911.0	4742.4	5194.3	3333.7
80°	216.8	222.8	235.8	262.4	387.0	348.0	475.7	1981.8	2290.8	2286.1	1330.6
82.5°	168.4	170.1	185.6	192.6	264.7	247.0	257.6	839.1	929.4	960.2	480.4
85°	106.3	111.7	164.3	147.8	158.3	144.8	127.0	333.2	410.7	404.7	192.1
87.5°	32.5	34.3	55.5	62.6	70.3	63.2	46.7	98.1	120.0	130.0	47.8
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°	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1327.1	1320.6	1297.6	1278.6	1260.9	1241.4	1224.8	1220.1	1216.0	1214.3	1213.6
5°	1339.5	1320.0	1274.5	1237.3	1207.8	1180.5	1163.5	1155.8	1148.0	1148.0	1150.5
7.5°	1357.3	1321.8	1251.5	1196.0	1158.7	1133.3	1120.9	1119.7	1121.5	1123.2	1123.8
10°	1376.7	1320.6	1217.8	1148.7	1115.5	1103.7	1104.3	1114.4	1123.8	1131.0	1132.1
12.5°	1395.6	1313.5	1178.2	1104.3	1083.0	1085.5	1102.0	1124.5	1142.8	1152.8	1153.4
15°	1416.9	1302.3	1130.3	1062.4	1055.3	1073.6	1104.3	1138.6	1166.4	1183.0	1184.7
17.5°	1434.6	1283.4	1080.1	1021.7	1030.5	1064.2	1106.7	1151.0	1184.7	1205.4	1209.0
20°	1454.7	1259.1	1028.2	982.6	1008.0	1053.5	1102.0	1149.8	1184.7	1204.8	1209.5
22.5°	1470.7	1224.8	978.5	950.7	987.9	1040.5	1086.0	1124.5	1152.8	1163.5	1170.5
25°	1477.2	1181.8	931.8	924.7	972.0	1019.2	1050.0	1071.8	1080.7	1079.5	1082.5
27.5°	1473.6	1132.1	891.6	904.1	951.9	986.2	1001.5	999.7	983.8	969.0	976.1
30°	1458.9	1073.0	857.9	882.8	925.9	944.8	942.4	919.4	889.3	861.5	863.3
32.5°	1432.3	1009.2	826.6	858.6	889.3	897.6	881.6	851.4	808.3	772.3	766.9
35°	1409.8	948.4	798.9	830.8	852.6	848.5	833.1	794.1	755.1	723.3	717.9
37.5°	1406.3	896.4	772.3	799.4	811.9	805.9	787.1	754.0	739.8	715.6	712.6
40°	1425.2	859.7	745.1	766.4	772.3	767.6	746.9	728.0	741.0	735.1	735.1
42.5°	1476.6	840.2	720.8	733.3	738.0	741.6	726.8	710.8	726.8	699.6	690.8
45°	1558.2	840.8	699.0	700.8	715.0	727.3	717.3	693.7	685.4	631.0	620.4
47.5°	1678.0	860.9	681.3	670.0	695.5	716.1	702.0	667.7	631.0	595.0	588.5
50°	1818.1	896.9	665.3	638.1	669.5	702.0	691.3	651.1	613.3	591.5	587.3
52.5°	1973.6	942.4	645.8	602.7	637.5	695.5	693.7	648.8	596.8	582.0	578.5
55°	2165.5	987.4	621.6	561.3	609.2	690.1	687.2	629.3	593.2	582.6	581.5
57.5°	2388.9	1052.4	586.7	519.4	576.7	668.3	661.8	617.5	581.5	573.7	573.2
60°	2748.7	1153.4	537.1	481.0	543.6	629.8	638.1	597.4	562.5	560.7	560.2
62.5°	3222.0	1295.2	485.7	441.4	505.2	580.2	603.8	570.2	542.4	551.3	552.5
65°	3875.5	1414.6	432.5	407.7	462.7	532.4	571.4	544.8	520.0	537.1	537.1
67.5°	4301.6	1416.9	384.1	372.9	419.5	492.2	537.1	514.7	491.0	520.0	521.2
70°	4212.9	1241.4	343.9	336.2	377.6	449.1	499.3	481.5	454.4	480.4	470.9
71°	4070.0	1144.0	327.9	322.0	361.0	428.4	481.5	466.8	439.6	456.7	451.4
72.5°	3841.9	993.2	301.9	303.1	336.2	402.4	456.7	441.4	414.2	423.7	421.9
75°	3247.4	867.4	258.2	263.6	288.9	358.1	407.1	395.3	367.5	367.5	365.7
77.5°	2030.2	606.2	214.5	217.4	245.2	306.7	349.8	339.7	313.2	304.3	301.9
80°	757.5	313.2	167.8	171.3	188.5	241.6	289.6	280.1	252.9	242.9	233.4
82.5°	286.6	157.1	123.5	120.5	138.8	184.3	226.9	215.6	194.4	170.1	163.1
85°	108.1	78.0	75.6	73.3	81.5	109.3	140.6	138.3	115.8	98.7	96.9
87.5°	28.3	25.4	29.5	21.8	23.0	20.7	21.3	8.8	4.1	1.8	1.2
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)