

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: P646799

Luminaire Tested: **GALN-SA2C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11281.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

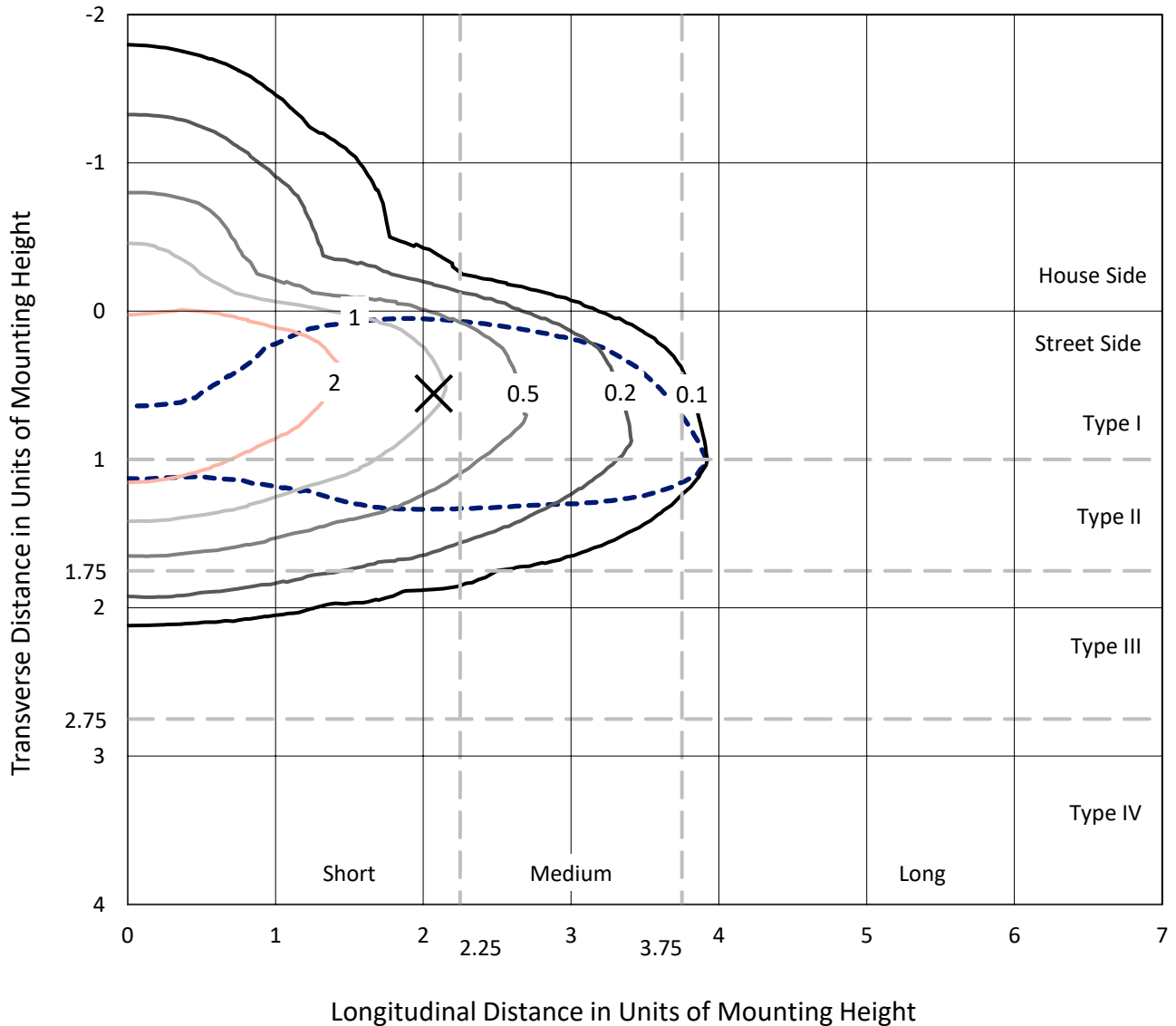
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

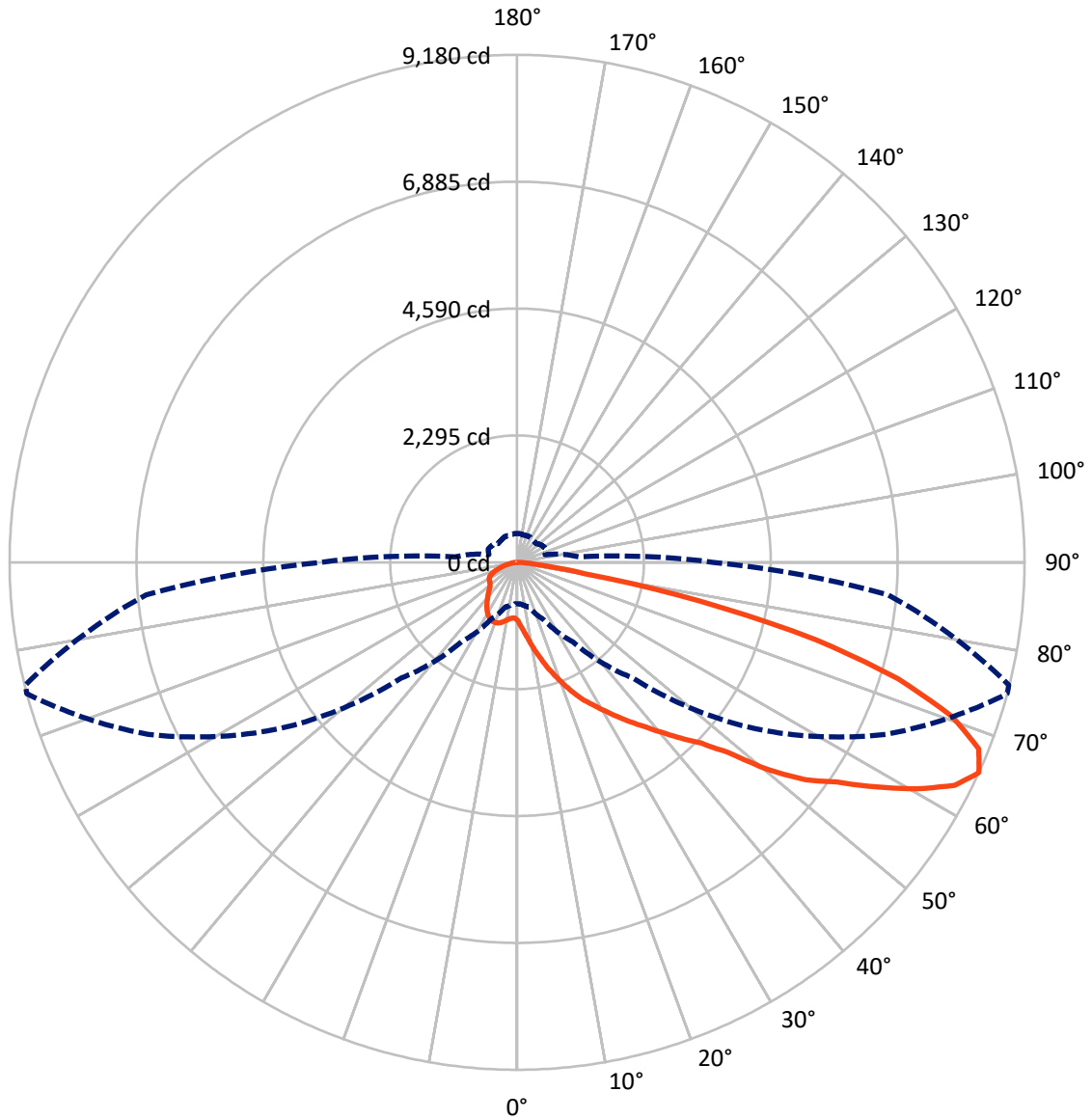
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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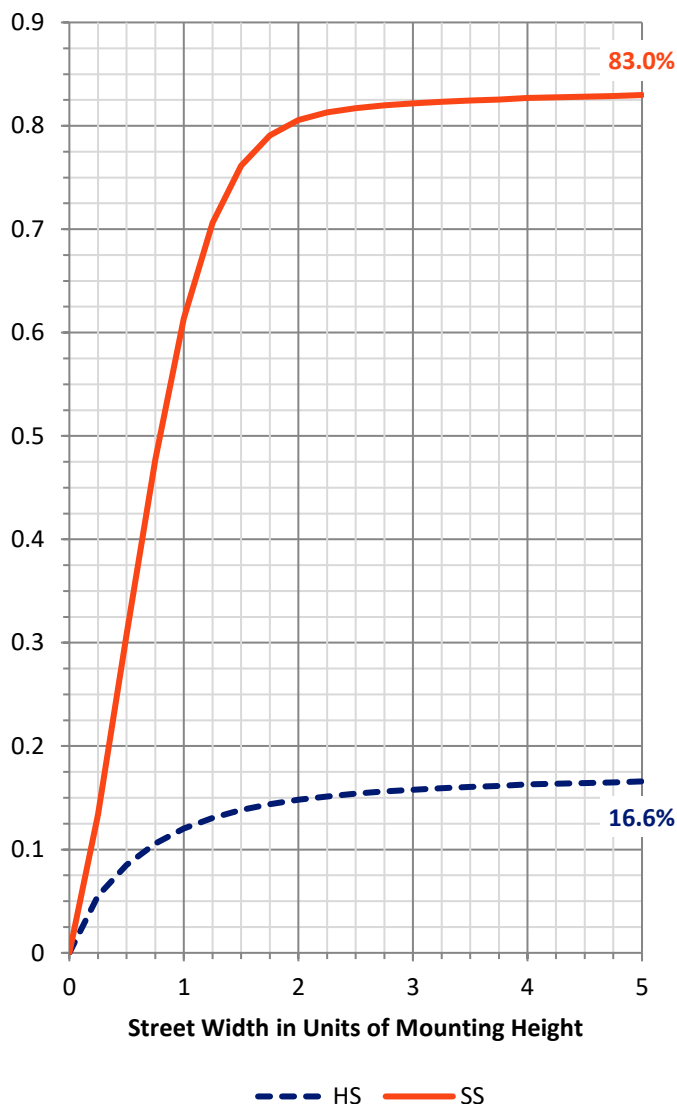
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1896.6	0.0	1896.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9384.9	0.0	9384.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	11281.5	0.0	11281.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.1
10°-20°	498.8	4.4
20°-30°	963.5	8.5
30°-40°	1565.1	13.9
40°-50°	2152.9	19.1
50°-60°	2541.9	22.5
60°-70°	2227.1	19.7
70°-80°	1063.2	9.4
80°-90°	141.5	1.3
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°	11281.5	100.0
0°-180°	11281.5	100.0

Coefficient of Utilization

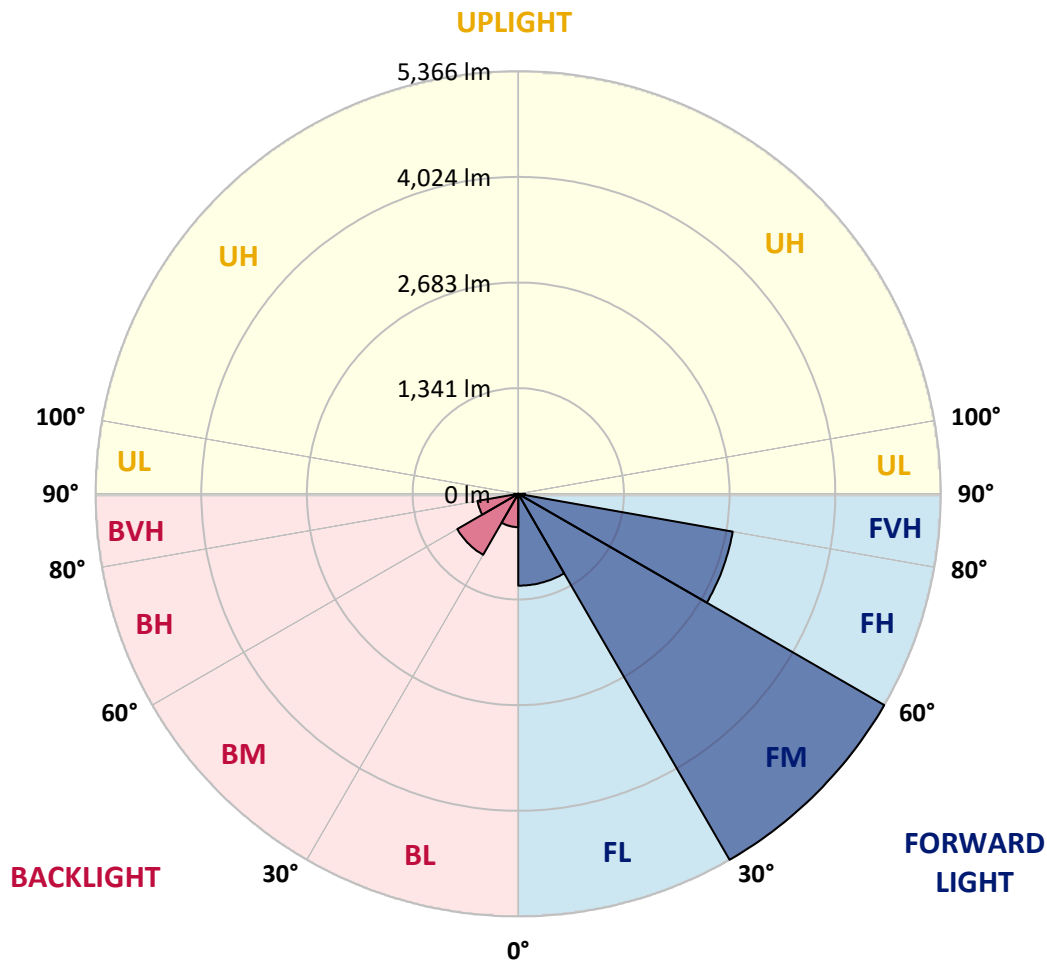


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.3	10.3			
FM (30°-60°)	5365.7	47.6			
FH (60°-80°)	2764.5	24.5			G2/5000
FVH (80°-90°)	88.4	0.8			G1/100
BL (0°-30°)	423.4	3.8	B1/500		
BM (30°-60°)	894.2	7.9	B1/1000		
BH (60°-80°)	525.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	53.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2
2.5°	1392.7	1383.5	1373.7	1346.8	1318.0	1285.6	1239.1	1194.5	1135.1	1133.2	1089.2
5°	1778.8	1772.7	1729.3	1704.1	1637.5	1548.7	1473.4	1356.6	1248.3	1235.4	1149.8
7.5°	2133.7	2109.9	2093.4	2048.0	1981.9	1868.2	1722.5	1564.7	1383.5	1366.4	1224.5
10°	2401.1	2398.6	2390.1	2351.0	2301.4	2188.2	2026.6	1800.2	1554.9	1521.2	1315.0
12.5°	2601.2	2603.0	2601.8	2601.2	2565.7	2469.7	2294.7	2056.0	1728.0	1704.1	1419.6
15°	2732.7	2751.1	2758.4	2789.0	2792.1	2727.9	2577.3	2303.2	1923.2	1887.7	1532.2
17.5°	2819.7	2828.8	2863.1	2915.1	2957.3	2945.7	2811.7	2532.1	2122.7	2063.4	1649.1
20°	2902.9	2918.8	2945.1	3016.0	3090.7	3125.0	3030.8	2766.4	2320.3	2282.4	1778.2
22.5°	3076.0	3098.6	3107.9	3144.0	3207.6	3268.2	3225.3	2991.0	2536.9	2485.6	1915.3
25°	3369.2	3393.0	3367.3	3358.8	3379.5	3409.5	3400.3	3202.7	2741.4	2667.9	2045.0
27.5°	3751.0	3754.0	3703.8	3656.1	3604.7	3589.4	3561.2	3390.5	2918.8	2857.6	2175.3
30°	4160.9	4146.2	4063.1	3976.8	3889.9	3804.2	3723.4	3571.7	3116.4	3046.0	2303.2
32.5°	4541.6	4533.6	4441.2	4307.2	4160.3	4079.6	3916.2	3754.6	3328.1	3260.3	2434.7
35°	4826.7	4838.3	4736.8	4590.5	4430.2	4358.6	4152.4	3946.8	3547.2	3473.2	2577.9
37.5°	5029.2	5023.1	4933.1	4806.5	4665.7	4603.3	4428.3	4156.6	3782.8	3711.8	2734.6
40°	5101.4	5097.8	5031.1	4938.7	4849.4	4827.3	4717.2	4383.1	4052.7	3969.4	2923.1
42.5°	5055.5	5063.5	5019.4	4994.4	4977.8	4993.7	5004.2	4679.8	4347.0	4270.5	3127.5
45°	4914.8	4910.5	4904.4	4945.4	5038.4	5143.1	5288.1	4960.1	4667.0	4605.8	3401.6
47.5°	4663.3	4693.9	4709.2	4822.4	5025.5	5273.3	5614.8	5335.8	5131.4	5078.2	3819.5
50°	4311.4	4335.9	4426.5	4627.8	4930.7	5322.4	5934.2	5950.2	5906.1	5806.3	4273.5
52.5°	3762.0	3799.9	3986.6	4355.5	4736.1	5302.2	6127.6	6477.0	6535.2	6460.5	4720.9
55°	3147.0	3200.3	3397.3	3881.3	4468.1	5192.0	6261.0	6782.3	7014.3	6945.1	5151.6
57.5°	2544.9	2601.2	2803.8	3272.5	4000.7	4948.5	6348.5	7122.6	7666.5	7576.6	5687.6
60°	1907.3	1966.0	2139.9	2622.6	3334.9	4472.4	6289.1	7417.5	8318.2	8279.7	6224.3
62.5°	1230.6	1295.4	1446.5	1846.1	2563.2	3822.0	5971.5	7580.2	8882.4	8835.9	6615.9
65°	749.6	756.9	840.2	1146.1	1754.3	2959.2	5245.2	7364.3	9179.7	9165.7	6735.2
67.5°	484.6	496.3	534.2	686.5	1051.9	2055.4	4194.0	6651.4	9006.0	9001.1	6488.6
70°	409.4	413.0	430.2	463.2	611.3	1246.5	2945.1	5515.1	8345.8	8345.8	5895.7
72.5°	365.9	370.8	376.9	387.4	436.3	706.1	1757.4	4293.1	7205.8	7253.5	5018.2
75°	332.2	331.1	334.7	336.5	372.0	461.3	908.7	3175.1	5574.4	5479.0	3634.1
77.5°	284.5	286.3	284.5	292.5	328.6	351.3	461.3	2130.6	3378.3	3254.7	1824.1
80°	233.7	236.8	239.8	244.8	280.9	266.8	277.2	971.1	1249.5	1223.2	563.5
82.5°	175.6	179.9	184.8	196.5	220.9	176.3	175.0	414.8	451.0	413.0	207.4
85°	71.0	83.9	126.7	138.3	138.9	96.7	107.7	173.2	184.2	179.9	81.4
87.5°	16.5	19.6	41.0	61.8	56.9	36.1	39.8	56.3	64.3	59.4	27.6
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°	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2	1048.2
2.5°	1069.0	1047.6	1010.9	982.7	962.5	944.8	933.7	927.1	924.6	923.9	924.6
5°	1105.1	1067.2	1009.1	972.3	952.1	940.5	933.7	933.2	933.7	934.4	932.6
7.5°	1154.7	1100.2	1024.3	990.0	974.8	966.2	963.2	961.9	962.5	961.9	961.9
10°	1220.8	1146.1	1054.3	1018.8	1006.0	996.2	991.3	988.2	985.8	983.3	982.1
12.5°	1293.6	1196.9	1086.7	1052.5	1034.1	1018.8	1007.8	999.8	994.3	988.9	987.6
15°	1374.9	1250.8	1122.8	1075.1	1048.8	1026.2	1007.2	994.3	984.5	976.6	976.0
17.5°	1452.6	1301.5	1147.3	1085.6	1046.9	1015.2	990.0	972.3	960.1	949.7	948.4
20°	1535.9	1349.9	1158.4	1078.8	1028.6	990.0	957.0	935.6	921.5	909.9	908.0
22.5°	1619.7	1390.8	1157.1	1057.4	996.8	951.5	916.7	894.0	877.5	865.8	861.5
25°	1699.9	1423.9	1141.8	1023.1	952.8	905.6	870.1	849.3	834.6	820.6	820.6
27.5°	1772.1	1443.5	1113.0	981.5	907.4	857.9	829.7	810.8	797.3	788.2	782.6
30°	1843.0	1452.6	1073.9	928.9	859.7	817.5	794.9	783.9	771.6	761.2	760.0
32.5°	1906.7	1450.8	1024.9	877.5	814.5	784.5	775.2	766.7	753.9	739.2	735.5
35°	1968.5	1438.6	966.8	821.2	776.5	764.9	767.3	755.1	731.9	713.5	710.4
37.5°	2035.8	1416.5	903.2	775.2	744.7	755.7	761.8	734.9	696.9	668.2	661.5
40°	2113.6	1391.5	837.1	729.4	719.6	747.1	747.1	697.6	645.6	627.8	623.0
42.5°	2204.7	1370.6	782.0	690.8	698.8	726.3	723.3	648.0	626.6	617.4	615.0
45°	2349.1	1363.4	725.1	657.2	681.7	701.9	676.7	630.9	618.6	611.3	608.9
47.5°	2577.3	1371.9	674.9	632.1	662.1	677.4	624.8	619.3	610.7	600.2	599.1
50°	2789.0	1363.9	639.5	618.0	645.0	648.0	603.3	605.2	600.2	588.7	586.2
52.5°	2962.2	1338.9	616.8	610.7	630.2	596.6	583.2	589.9	588.0	573.4	570.9
55°	3152.5	1323.6	605.8	610.7	620.4	551.9	564.2	573.9	571.5	561.1	560.5
57.5°	3383.2	1326.6	597.8	612.5	610.7	529.3	545.2	556.9	556.2	553.2	553.2
60°	3619.4	1327.8	585.6	611.9	599.1	511.5	525.6	542.1	543.4	545.2	545.2
62.5°	3697.7	1274.6	561.7	600.9	573.4	494.4	507.3	529.9	528.7	533.6	534.2
65°	3551.5	1127.1	526.3	575.8	540.3	482.2	493.2	514.0	507.3	520.1	522.6
67.5°	3232.7	932.6	471.1	530.5	503.6	469.3	484.1	492.0	479.7	504.8	505.4
70°	2794.0	728.2	401.4	466.3	462.0	455.9	476.7	464.4	447.3	477.9	471.8
72.5°	2336.2	556.2	320.6	381.2	406.3	435.7	463.8	428.9	405.0	414.3	403.2
75°	1754.9	411.2	257.6	298.6	338.4	406.9	452.2	386.1	349.4	340.8	338.4
77.5°	894.6	268.6	192.8	223.3	253.9	367.8	436.3	335.9	289.4	276.0	269.8
80°	319.4	167.0	135.9	154.2	171.3	316.3	381.2	277.8	224.6	222.1	224.6
82.5°	148.1	107.7	91.1	100.9	101.6	211.1	290.6	207.4	170.7	259.4	219.1
85°	63.7	53.9	51.4	50.2	46.5	94.2	163.4	111.3	173.7	77.7	71.6
87.5°	18.9	21.5	18.9	14.1	10.4	10.4	16.5	6.1	4.3	3.1	3.1
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)