

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: P522650

Luminaire Tested: **GALN-SA2A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7697 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

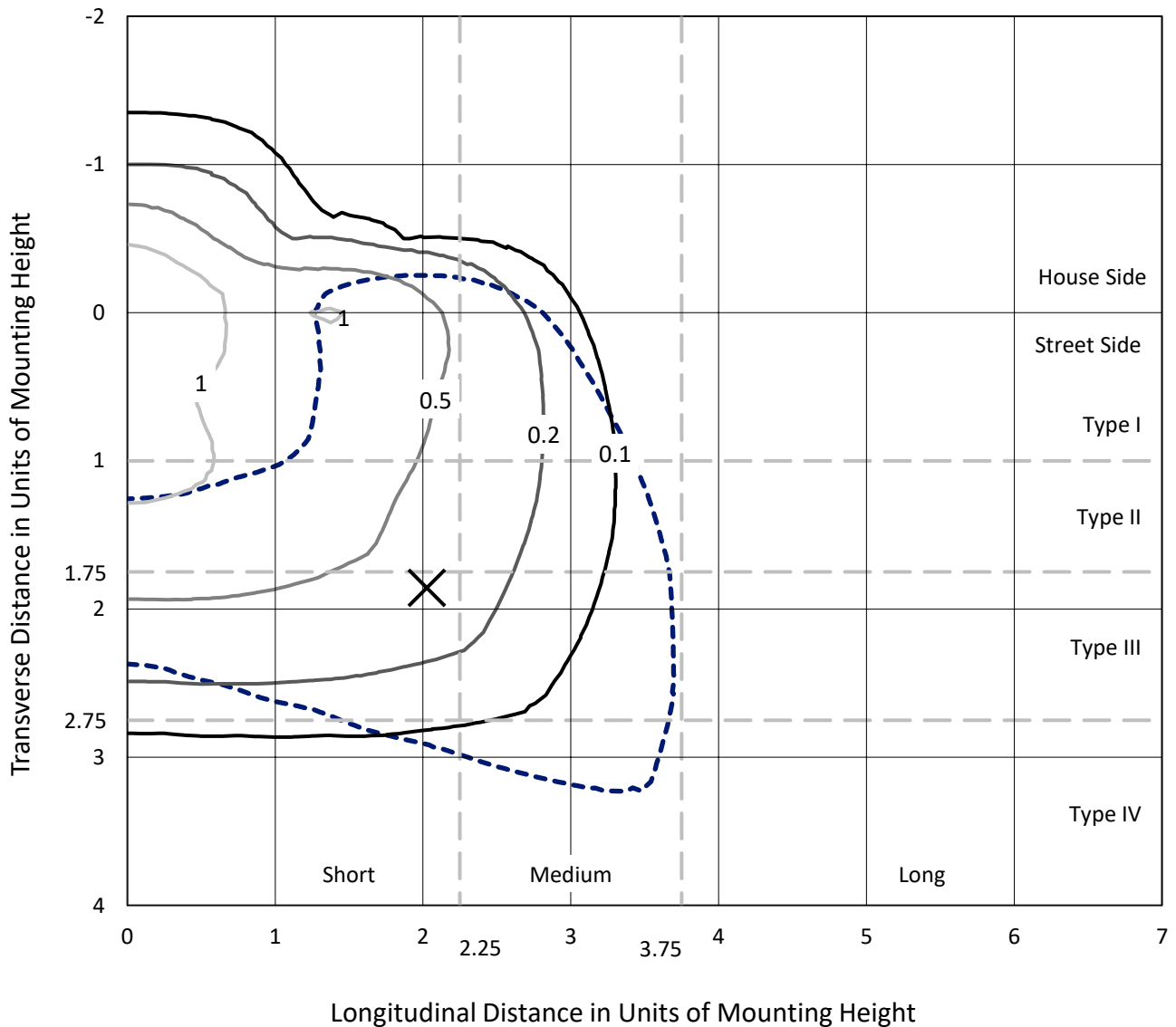
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

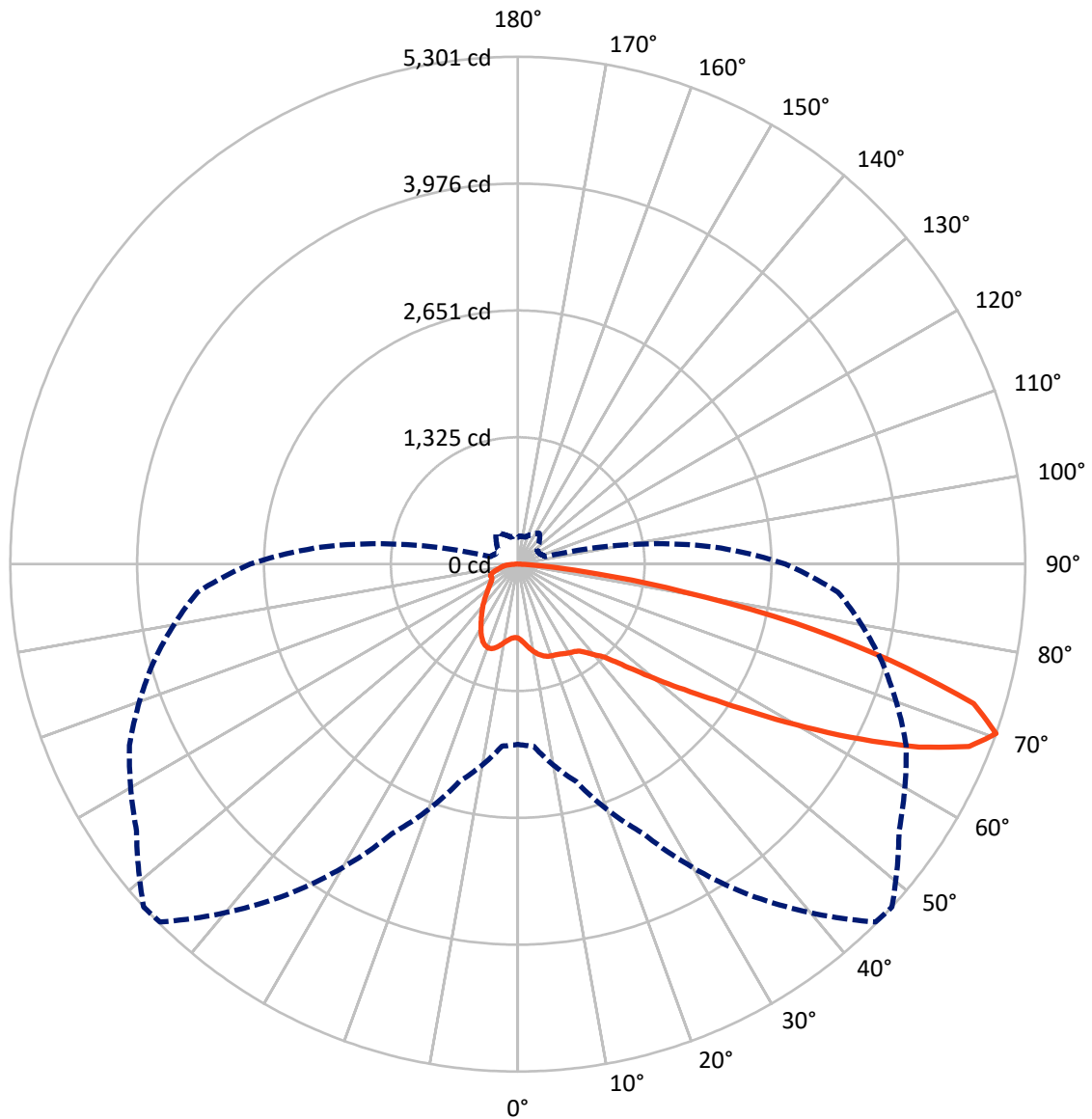
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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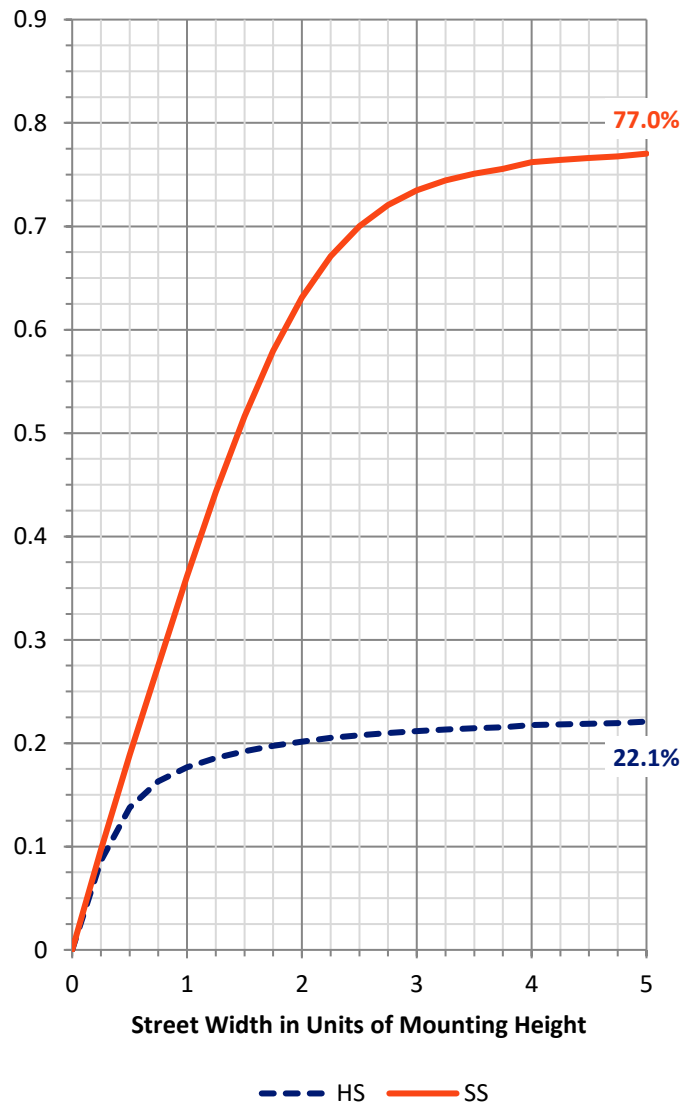
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.7	0.0	1742.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5954.2	0.0	5954.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	7697.0	0.0	7697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.0
10°-20°	266.3	3.5
20°-30°	442.8	5.8
30°-40°	627.6	8.2
40°-50°	926.5	12.0
50°-60°	1604.7	20.8
60°-70°	2266.7	29.4
70°-80°	1303.0	16.9
80°-90°	179.8	2.3
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°	7697.0	100.0
0°-180°	7697.0	100.0



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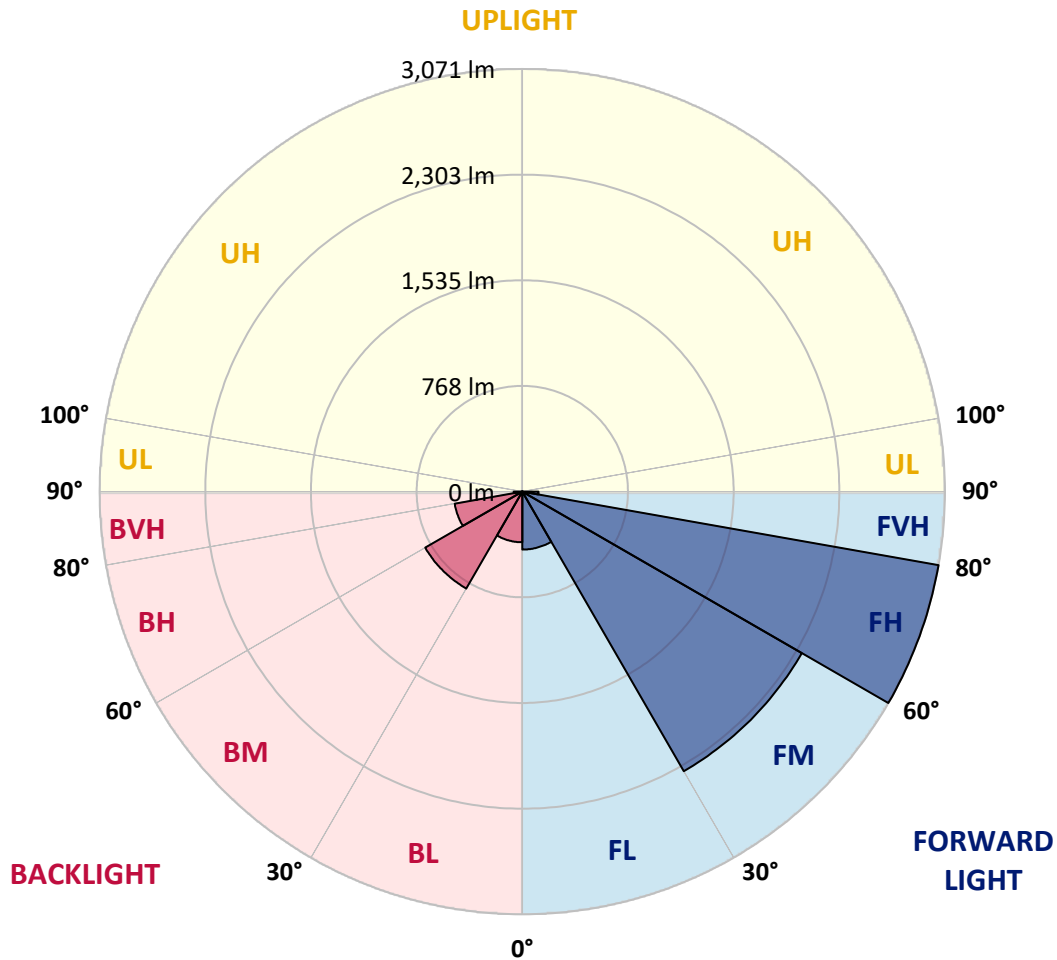
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.9	5.5			
FM	(30°-60°)	2345.1	30.5			
FH	(60°-80°)	3070.8	39.9			G2/5000
FVH	(80°-90°)	117.4	1.5			G2/225
BL	(0°-30°)	367.8	4.8	B1/500		
BM	(30°-60°)	813.7	10.6	B1/1000		
BH	(60°-80°)	498.9	6.5	B1/500		G1/500
BVH	(80°-90°)	62.3	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7
2.5°	822.5	819.6	819.2	813.1	809.8	803.6	801.1	795.3	788.3	781.3	774.7
5°	887.2	887.2	884.3	875.7	862.1	848.1	841.9	830.8	811.0	794.9	781.3
7.5°	953.5	954.3	948.6	935.8	916.4	893.8	888.0	871.5	843.5	820.1	799.9
10°	1010.8	1010.8	1002.9	985.6	961.3	936.6	930.8	912.3	881.0	851.8	825.4
12.5°	1054.4	1054.4	1044.1	1021.5	995.1	972.9	966.3	948.6	919.3	886.8	853.4
15°	1082.8	1080.8	1069.2	1043.7	1018.2	998.8	994.3	979.4	952.7	919.7	882.2
17.5°	1084.1	1083.2	1072.1	1050.7	1028.5	1015.3	1012.4	1002.5	981.5	950.2	910.7
20°	1060.2	1061.8	1054.4	1039.2	1028.5	1022.7	1021.5	1018.2	1003.3	974.1	934.6
22.5°	1034.6	1037.5	1030.5	1022.3	1021.5	1027.2	1028.1	1028.9	1019.4	991.0	954.7
25°	1028.5	1030.5	1023.5	1016.1	1020.6	1035.9	1039.2	1042.5	1035.1	1011.2	978.6
27.5°	1059.8	1058.1	1044.5	1028.5	1031.3	1051.9	1056.5	1060.2	1056.5	1035.9	1008.3
30°	1148.3	1143.0	1115.8	1068.8	1054.0	1068.4	1072.9	1083.2	1083.2	1068.0	1040.4
32.5°	1296.6	1286.3	1236.5	1144.2	1092.7	1084.1	1088.6	1105.5	1114.1	1102.2	1072.1
35°	1476.6	1465.9	1394.6	1270.6	1163.6	1115.4	1114.1	1133.1	1156.1	1129.4	1090.2
37.5°	1657.4	1646.3	1560.6	1421.4	1266.9	1181.3	1173.9	1180.4	1190.3	1141.3	1115.4
40°	1838.2	1825.0	1750.1	1589.9	1393.4	1268.6	1249.2	1219.6	1215.5	1180.4	1164.0
42.5°	2017.4	2005.4	1967.5	1778.9	1545.0	1353.8	1324.2	1273.1	1288.8	1267.8	1253.3
45°	2198.2	2199.0	2158.7	1991.0	1727.8	1511.2	1471.2	1391.3	1428.4	1420.6	1428.8
47.5°	2358.4	2356.4	2341.9	2197.0	1954.8	1713.8	1662.3	1569.7	1633.1	1661.9	1725.0
50°	2513.7	2512.5	2513.3	2430.5	2218.4	1954.8	1897.9	1800.7	1943.7	2043.7	2156.6
52.5°	2736.1	2743.1	2693.3	2671.5	2538.8	2239.4	2176.8	2076.3	2310.6	2468.4	2688.8
55°	2959.4	2953.6	2914.5	2937.1	2874.1	2576.3	2510.8	2430.9	2719.2	2891.8	3223.0
57.5°	3090.7	3092.8	3132.8	3243.6	3288.0	2996.4	2937.1	2875.3	3178.5	3300.8	3698.3
60°	3209.0	3218.4	3333.3	3542.6	3663.3	3512.5	3459.8	3399.7	3599.8	3648.4	4111.0
62.5°	3246.0	3275.3	3475.9	3788.9	4029.0	4094.9	4029.4	3896.8	4001.0	3982.1	4390.6
65°	3061.1	3101.0	3460.6	3881.1	4355.6	4647.6	4606.0	4359.7	4342.9	4228.8	4436.4
67.5°	2574.2	2614.2	3075.9	3687.6	4490.7	5126.3	5084.7	4697.5	4550.4	4251.8	4090.4
70°	1883.5	1908.7	2350.2	3104.7	4219.3	5286.9	5301.3	4862.2	4476.3	3938.4	3358.5
72.5°	1085.3	1140.9	1450.2	2184.2	3447.0	4880.8	4980.9	4519.6	4007.6	3285.6	2348.1
75°	466.7	467.9	670.5	1204.7	2334.5	3923.2	4019.9	3746.5	3147.2	2271.9	1253.8
77.5°	222.0	226.1	294.9	537.9	1285.1	2710.6	2971.7	2646.7	2012.9	1091.5	473.7
80°	144.2	147.0	180.4	266.9	630.2	1571.7	1753.8	1526.8	888.0	390.1	204.3
82.5°	87.3	88.1	120.7	163.1	346.8	711.7	839.0	662.7	378.9	233.5	120.3
85°	53.1	53.5	73.3	100.9	210.5	245.9	252.5	250.4	222.4	152.8	64.3
87.5°	25.5	26.4	37.9	47.8	82.8	76.2	72.1	83.6	105.0	82.4	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°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7
2.5°	771.9	770.6	767.7	766.5	765.7	766.1	765.7	765.7	766.1	766.1	766.1
5°	775.6	773.5	769.0	769.0	771.5	777.2	782.6	786.7	791.2	790.8	790.8
7.5°	791.6	787.9	782.6	784.2	790.4	799.5	808.9	818.0	827.1	827.9	827.5
10°	815.1	811.4	805.6	807.7	817.6	831.2	843.1	856.3	866.2	869.1	868.2
12.5°	841.9	834.5	829.5	835.3	850.9	869.1	880.6	890.5	897.5	901.6	900.0
15°	869.1	862.1	856.3	868.2	887.2	904.1	909.8	911.5	912.7	916.8	916.0
17.5°	895.4	886.0	883.9	899.5	917.7	925.1	921.8	914.8	909.4	912.7	912.3
20°	918.9	911.5	910.7	926.3	933.3	926.3	912.3	900.0	890.5	891.3	890.9
22.5°	941.1	935.4	936.2	942.8	931.7	907.8	884.7	867.8	857.5	859.6	860.8
25°	965.9	960.1	962.2	951.4	914.8	873.2	839.8	825.4	821.3	825.4	828.3
27.5°	998.0	994.3	993.0	951.9	884.7	822.1	784.2	778.9	782.6	791.6	796.2
30°	1032.6	1032.6	1026.0	944.9	843.5	760.7	727.8	728.6	741.4	754.2	758.7
32.5°	1065.9	1072.9	1052.4	925.9	790.4	701.0	675.9	676.7	687.8	703.5	707.6
35°	1093.5	1113.7	1075.0	891.3	727.8	650.8	631.8	620.7	621.1	633.1	636.4
37.5°	1131.4	1168.9	1088.2	839.8	661.1	607.9	586.5	567.2	554.4	549.4	549.4
40°	1197.3	1252.5	1091.5	763.6	598.0	567.2	536.7	513.6	488.9	466.7	462.5
42.5°	1309.0	1378.6	1084.9	675.9	541.2	522.3	492.6	464.2	430.0	398.7	396.2
45°	1506.7	1542.5	1067.2	584.9	490.5	479.0	450.2	419.3	383.0	355.0	353.0
47.5°	1823.4	1772.7	1043.7	504.1	444.4	441.1	418.9	383.0	346.8	327.4	325.4
50°	2285.9	2135.2	1040.4	445.7	407.3	409.0	390.9	357.9	326.2	310.1	307.7
52.5°	2842.8	2573.0	1062.2	404.5	374.8	381.0	371.9	341.4	313.4	299.8	297.4
55°	3383.2	2966.8	1075.4	372.3	344.3	355.9	357.1	331.6	306.0	292.4	290.8
57.5°	3821.8	3263.3	1016.9	343.1	318.0	335.7	344.7	325.8	302.3	292.0	290.4
60°	4127.0	3403.4	850.5	317.1	298.6	319.6	340.2	326.2	311.4	312.6	313.4
62.5°	4224.2	3341.2	638.0	297.8	285.4	314.3	347.6	343.1	327.9	337.3	339.0
65°	4063.2	3084.2	462.5	282.5	273.9	318.0	369.9	355.5	322.1	329.1	329.1
67.5°	3524.0	2657.0	360.0	268.5	260.7	325.0	392.1	354.2	308.5	316.7	309.3
70°	2795.4	2055.3	299.8	252.9	246.7	314.7	394.2	341.4	292.4	294.1	280.1
72.5°	1855.1	1351.4	257.8	238.1	225.3	283.0	377.3	325.0	276.8	267.3	253.3
75°	909.0	673.8	224.9	219.5	197.3	246.3	354.2	309.3	259.9	245.1	237.2
77.5°	352.2	286.7	191.9	196.1	171.8	217.1	323.7	287.1	237.7	217.5	211.3
80°	170.9	162.7	157.3	163.5	141.3	184.9	295.7	267.7	217.1	194.8	185.8
82.5°	106.3	100.5	120.7	127.3	108.7	168.9	280.5	251.2	191.1	161.5	154.0
85°	54.0	57.7	80.7	86.9	77.8	134.3	231.1	188.6	138.0	114.5	115.3
87.5°	20.6	27.6	42.4	45.7	41.6	70.8	127.3	110.0	88.6	60.1	55.6
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)