

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: P450912

Luminaire Tested: **GALN-SA1D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6532 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

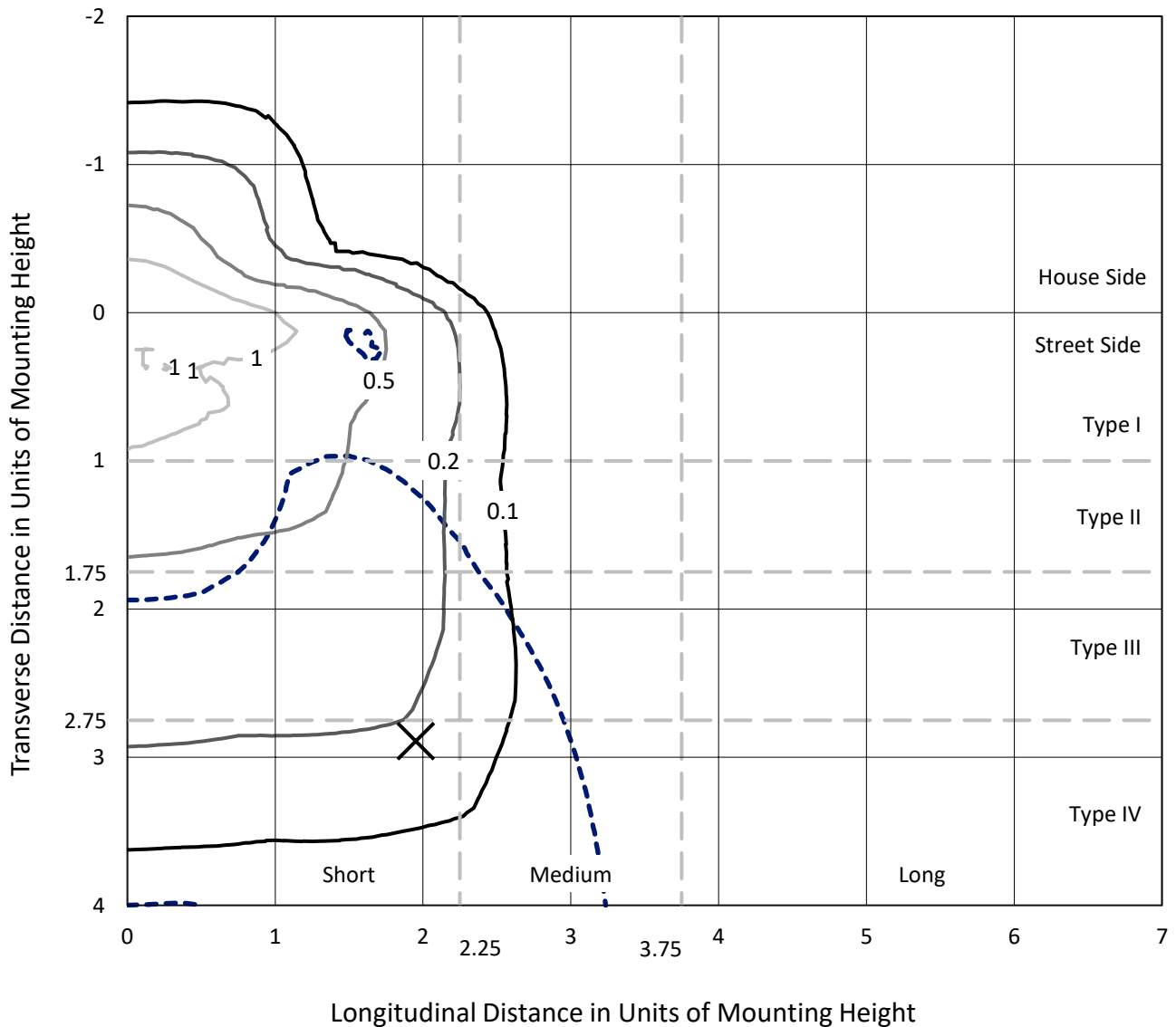
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

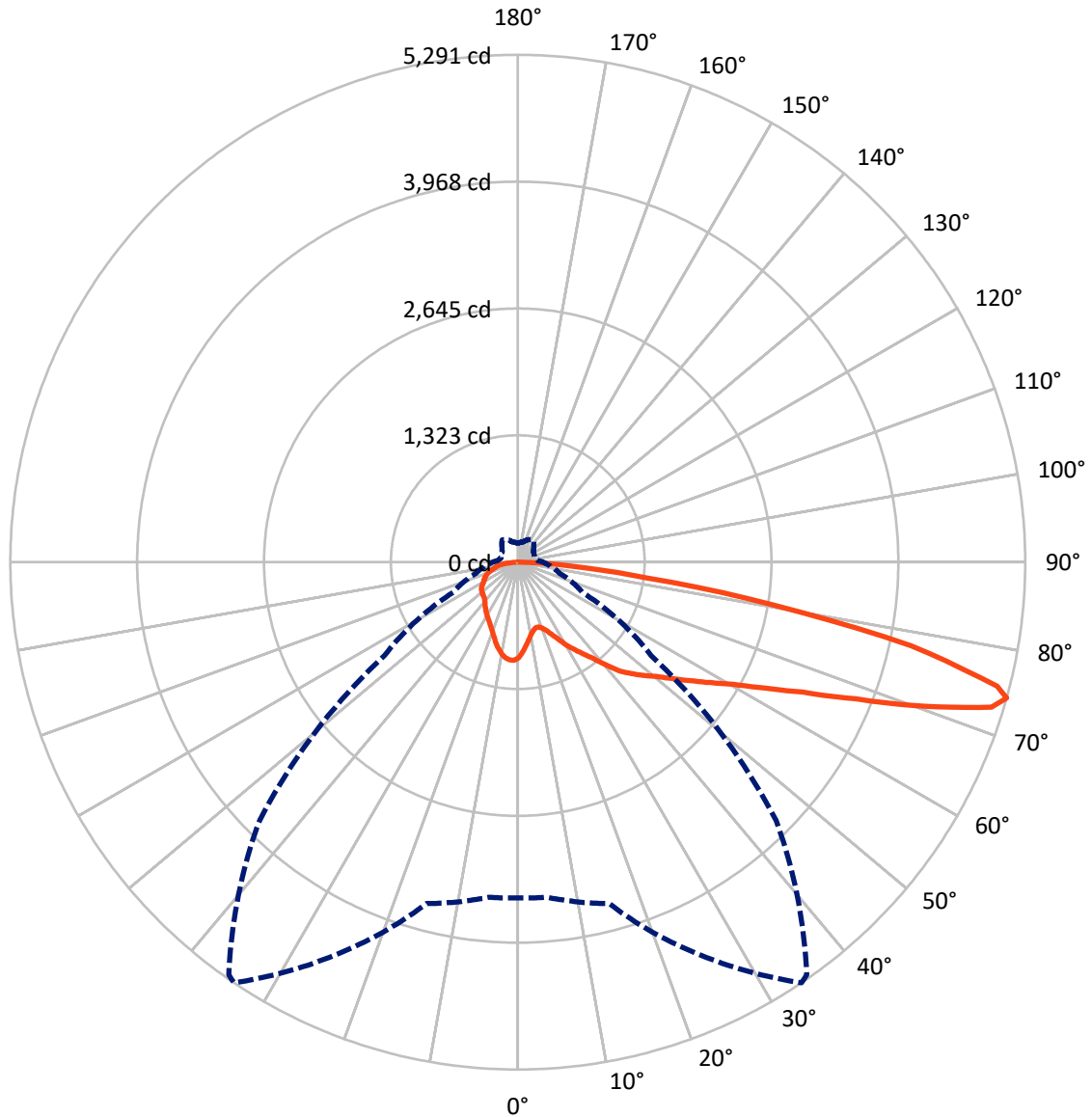
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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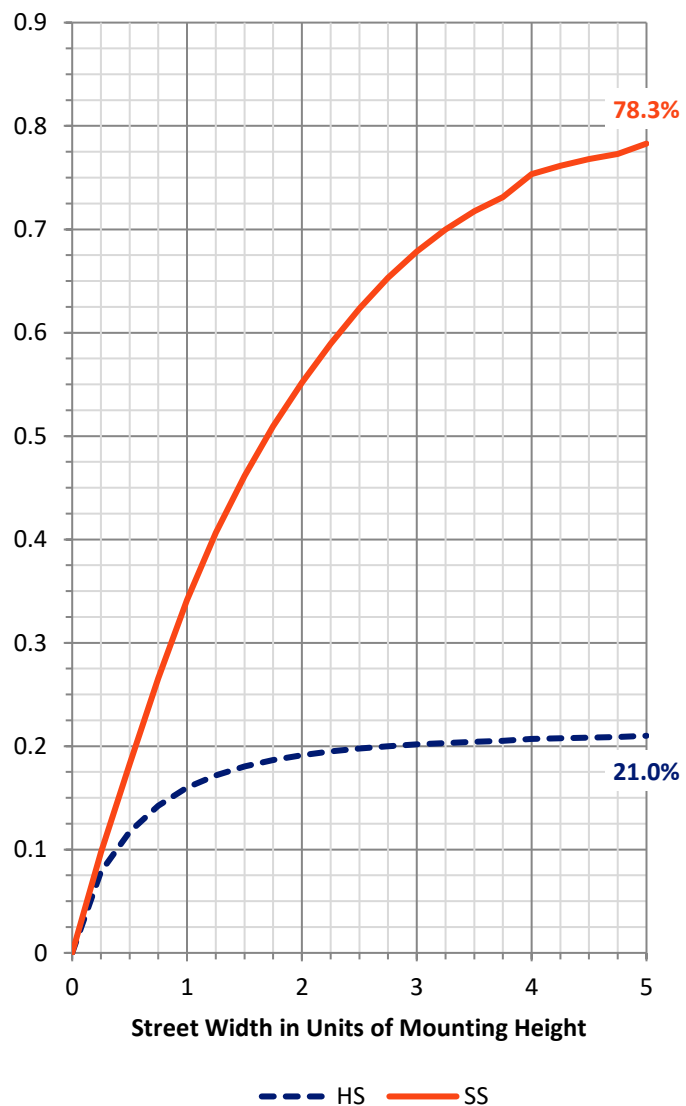
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.1	0.0	1390.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5141.9	0.0	5141.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	6532.0	0.0	6532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.4
10°-20°	248.3	3.8
20°-30°	409.4	6.3
30°-40°	613.2	9.4
40°-50°	891.4	13.6
50°-60°	1245.1	19.1
60°-70°	1558.8	23.9
70°-80°	1289.0	19.7
80°-90°	186.2	2.9
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°	6532.0	100.0
0°-180°	6532.0	100.0

Coefficient of Utilization



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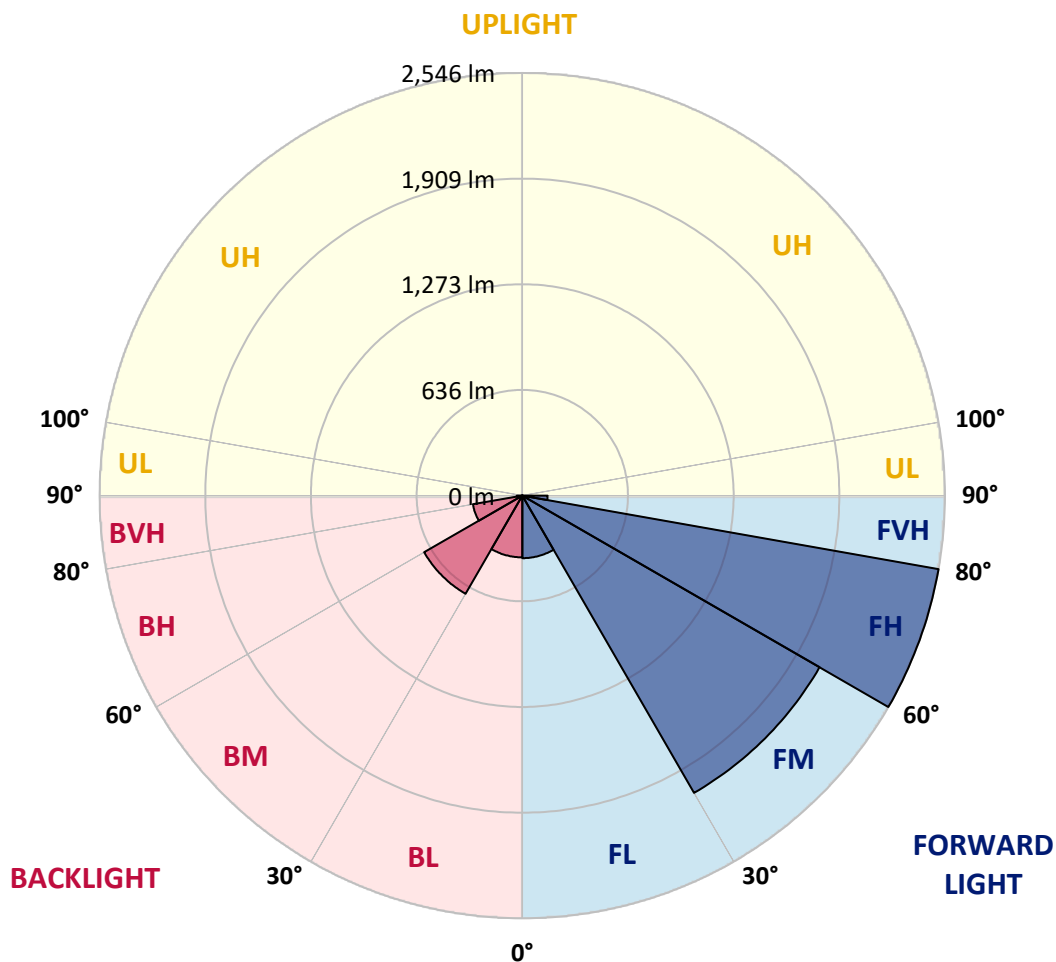
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.5	5.8			
FM (30°-60°)	2067.0	31.6			
FH (60°-80°)	2545.8	39.0			G2/5000
FVH (80°-90°)	152.6	2.3			G2/225
BL (0°-30°)	371.8	5.7	B1/500		
BM (30°-60°)	682.7	10.5	B1/1000		
BH (60°-80°)	301.9	4.6	B1/500		G1/500
BVH (80°-90°)	33.7	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3
2.5°	921.7	926.4	928.9	938.0	940.1	943.0	950.6	960.8	973.8	985.4	995.5
5°	845.0	852.2	856.5	864.5	880.1	881.5	901.8	924.9	951.4	976.0	996.2
7.5°	772.2	780.2	783.8	798.3	818.9	822.2	851.8	888.4	932.5	969.8	1000.9
10°	717.6	721.6	729.5	740.4	765.0	767.2	805.9	854.7	911.9	966.9	1008.9
12.5°	687.9	690.1	691.9	703.5	727.7	731.0	771.5	826.9	895.6	969.1	1021.9
15°	692.3	693.0	685.0	687.2	706.7	711.4	751.6	808.4	885.5	974.5	1041.5
17.5°	728.8	726.3	706.7	696.6	710.3	712.5	747.6	801.2	880.8	984.6	1061.7
20°	786.3	782.7	749.1	726.6	734.6	736.4	760.6	806.6	885.5	1001.3	1093.2
22.5°	858.0	856.5	805.5	778.4	778.0	778.0	790.7	826.1	899.6	1024.1	1126.1
25°	958.2	950.6	884.0	848.9	839.2	838.4	837.0	858.4	917.7	1048.3	1165.2
27.5°	1061.0	1048.0	988.6	934.7	913.7	911.2	901.8	903.9	940.9	1075.8	1209.7
30°	1153.3	1144.9	1089.2	1029.5	1004.5	998.8	972.7	960.8	979.6	1125.4	1280.6
32.5°	1223.8	1218.8	1175.3	1121.1	1084.2	1083.1	1045.1	1035.3	1040.0	1185.5	1361.7
35°	1281.0	1282.8	1260.7	1213.7	1171.4	1165.2	1139.9	1127.6	1113.8	1272.3	1463.8
37.5°	1359.2	1363.2	1361.7	1321.2	1269.4	1270.9	1265.1	1244.8	1208.3	1369.3	1577.0
40°	1445.3	1448.2	1447.8	1432.3	1405.1	1406.6	1404.4	1381.2	1326.6	1492.7	1702.9
42.5°	1564.4	1550.6	1514.8	1530.3	1546.3	1553.1	1568.0	1545.9	1471.0	1624.4	1821.3
45°	1697.5	1671.5	1590.4	1597.6	1656.6	1669.7	1751.4	1721.0	1627.7	1775.7	1960.6
47.5°	1781.5	1755.8	1687.4	1685.9	1764.1	1776.8	1921.5	1910.3	1770.3	1938.9	2130.7
50°	1856.4	1852.8	1775.7	1794.1	1870.5	1889.3	2106.8	2096.3	1912.5	2131.4	2316.0
52.5°	1967.5	1938.2	1876.6	1914.6	2015.6	2040.2	2290.6	2259.9	2043.1	2301.5	2495.8
55°	2017.4	2010.5	2006.9	2039.8	2178.4	2196.2	2469.4	2398.8	2154.6	2445.5	2632.6
57.5°	2150.9	2138.3	2174.1	2196.5	2370.2	2397.4	2656.1	2543.9	2252.3	2559.9	2699.2
60°	2323.9	2317.0	2350.0	2390.5	2584.5	2625.7	2868.9	2667.7	2330.8	2617.4	2662.6
62.5°	2582.3	2581.6	2575.4	2662.3	2888.1	2926.1	3113.1	2788.2	2343.1	2574.3	2473.7
65°	2952.8	2939.8	2886.3	2981.1	3265.9	3310.4	3367.5	2855.5	2268.9	2353.2	2082.9
67.5°	3340.4	3339.7	3296.3	3419.3	3808.3	3854.3	3685.6	2840.7	2063.0	1906.3	1479.3
70°	3661.7	3646.2	3701.5	4029.4	4501.3	4554.5	3963.9	2665.9	1643.2	1258.9	879.0
72.5°	3738.8	3739.5	3854.6	4499.8	5166.7	5175.1	4064.1	2160.7	1099.7	694.4	439.7
74°	3501.4	3507.6	3686.0	4523.3	5290.9	5253.2	3807.9	1698.2	743.6	453.4	317.0
75°	3196.0	3157.3	3415.3	4366.7	5162.0	5121.5	3507.9	1362.8	567.4	362.2	277.6
77.5°	1708.7	1748.2	2146.2	3258.6	4193.7	4147.0	2378.6	653.5	306.5	252.2	199.8
80°	608.3	670.9	943.0	1705.1	2688.7	2703.2	1135.2	299.6	215.7	186.0	141.1
82.5°	248.2	255.1	404.9	756.7	1365.3	1378.4	463.6	178.0	154.2	128.1	84.3
85°	97.0	99.9	179.1	340.2	582.6	620.6	160.3	94.1	94.8	73.5	43.1
87.5°	32.6	36.9	73.5	113.3	197.9	194.0	46.7	27.9	34.0	31.8	13.4
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°	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3
2.5°	1000.6	1007.4	1012.1	1017.2	1021.9	1023.4	1022.3	1025.5	1025.9	1026.3	1026.6
5°	1006.4	1015.8	1024.8	1029.9	1032.0	1030.2	1024.1	1020.8	1017.9	1015.8	1016.5
7.5°	1014.3	1027.7	1036.0	1038.2	1032.4	1024.1	1008.9	996.9	989.3	984.3	983.9
10°	1026.6	1039.6	1046.5	1040.4	1024.4	1004.2	980.3	957.9	940.9	935.8	935.4
12.5°	1042.2	1057.0	1056.7	1038.6	1010.7	974.5	935.8	909.7	886.6	875.0	879.7
15°	1062.4	1073.7	1063.2	1030.6	986.5	936.9	889.1	853.6	827.6	815.3	816.0
17.5°	1086.0	1095.7	1067.9	1016.5	952.4	888.7	833.4	799.7	779.1	770.1	769.3
20°	1115.3	1118.2	1067.9	991.9	908.6	832.7	779.8	756.3	744.7	740.0	741.5
22.5°	1146.8	1141.0	1062.1	957.1	851.1	774.0	738.6	728.1	722.3	721.6	722.3
25°	1182.2	1165.9	1050.1	910.1	791.0	723.4	702.7	704.6	705.6	705.6	708.2
27.5°	1225.6	1193.1	1030.2	850.8	720.8	676.3	670.5	683.2	689.0	690.1	691.9
30°	1282.8	1222.8	997.3	776.6	661.1	634.0	644.1	661.1	667.6	671.6	670.9
32.5°	1350.9	1255.3	952.8	702.4	613.0	604.3	616.6	634.0	641.2	643.4	640.5
35°	1430.8	1292.2	894.2	632.9	571.0	576.1	590.6	596.0	602.5	602.5	604.0
37.5°	1516.9	1321.9	822.5	569.2	538.5	556.9	567.4	562.3	559.4	555.8	557.6
40°	1604.5	1344.0	729.5	506.3	505.9	537.0	539.9	525.4	513.9	510.2	508.4
42.5°	1680.9	1357.7	645.6	457.4	475.1	517.5	519.6	496.5	478.0	467.2	463.6
45°	1771.0	1373.6	563.4	416.9	446.5	501.9	507.3	476.2	449.1	426.3	420.5
47.5°	1894.4	1409.8	498.7	385.4	425.9	492.1	499.7	459.6	423.7	394.1	389.4
50°	2033.7	1459.4	448.4	364.0	410.0	483.5	492.9	442.6	400.2	367.3	363.7
52.5°	2161.4	1486.2	404.9	344.9	394.4	467.5	483.8	430.3	377.1	340.5	337.3
55°	2231.3	1442.8	362.2	326.0	373.1	446.9	471.2	413.3	354.6	326.4	321.7
57.5°	2240.7	1353.0	323.5	305.8	350.6	421.6	447.6	392.6	340.2	316.6	312.7
60°	2167.9	1219.1	293.5	289.1	327.9	393.0	421.2	374.5	325.3	305.8	301.8
62.5°	1987.0	1073.7	272.5	273.9	304.7	363.0	401.7	357.2	311.2	293.8	290.2
65°	1675.8	886.2	252.2	258.4	284.1	339.4	383.9	342.7	297.1	284.8	281.5
67.5°	1164.1	639.8	235.6	242.1	264.5	315.5	363.3	327.1	281.2	274.7	269.6
70°	644.5	393.7	216.0	223.6	244.3	288.8	340.2	303.6	258.0	255.1	247.9
72.5°	338.7	250.8	194.0	202.3	216.8	254.4	304.7	277.9	235.2	222.9	213.5
74°	264.5	205.5	179.1	187.8	197.6	234.1	283.7	259.5	218.9	204.5	197.2
75°	230.5	183.1	166.5	177.7	186.4	220.4	267.4	246.4	209.9	196.1	189.6
77.5°	162.8	137.1	136.1	149.5	154.2	193.2	241.0	224.4	187.1	172.6	166.5
80°	114.4	102.8	107.8	116.2	122.7	170.8	223.6	194.0	153.4	136.4	134.3
82.5°	74.5	67.3	77.1	84.7	86.8	125.9	180.6	147.3	111.8	90.8	84.3
85°	34.4	33.7	44.1	43.1	42.7	61.5	107.1	86.1	64.4	48.1	45.2
87.5°	8.7	8.3	10.9	9.0	10.9	9.4	9.8	2.5	0.4	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)