

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: P458626

Luminaire Tested: **GALN-SA1D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458626
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-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 7276 lumens
Efficiency: N/A
Efficacy: 111.9 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

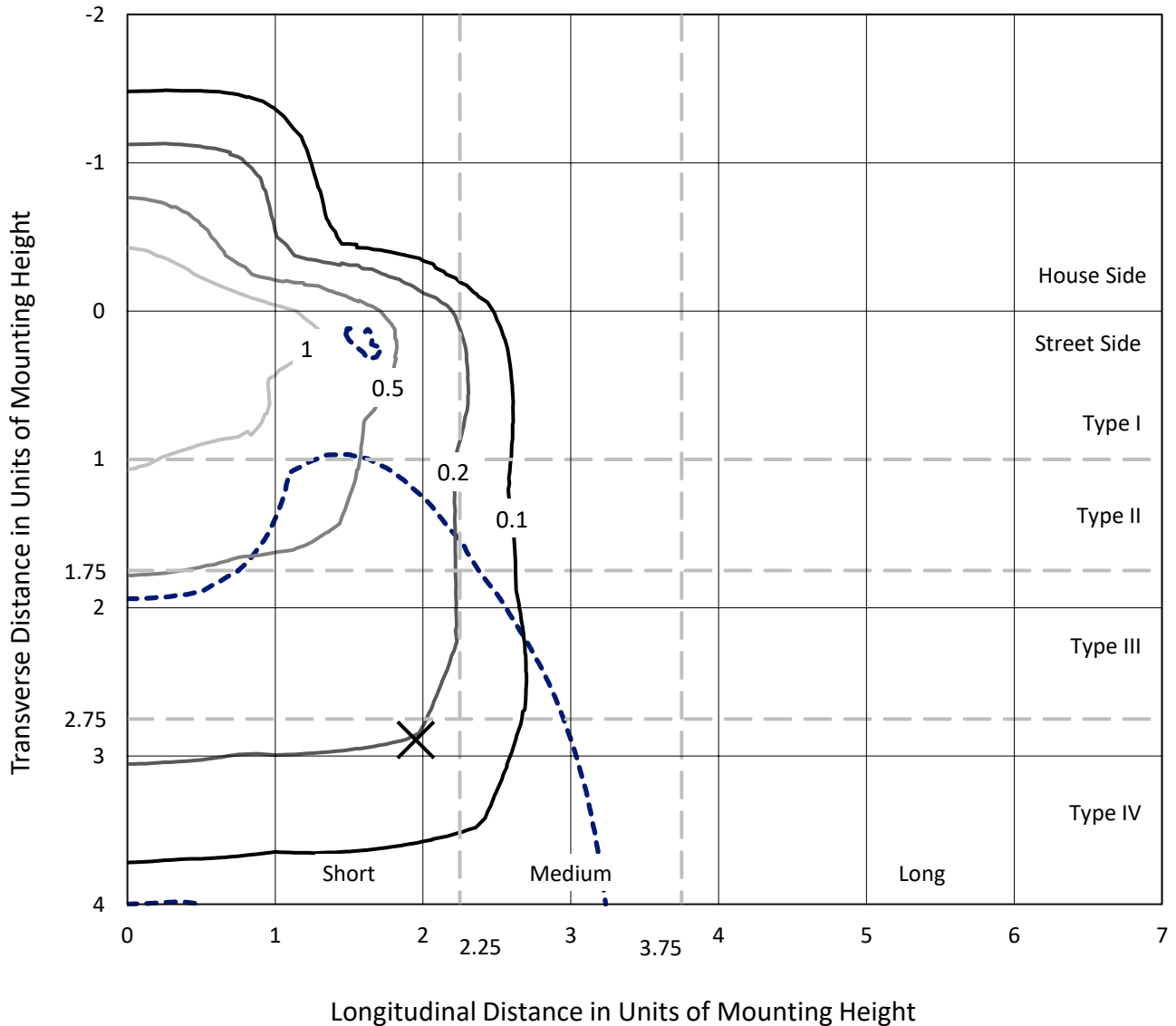
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

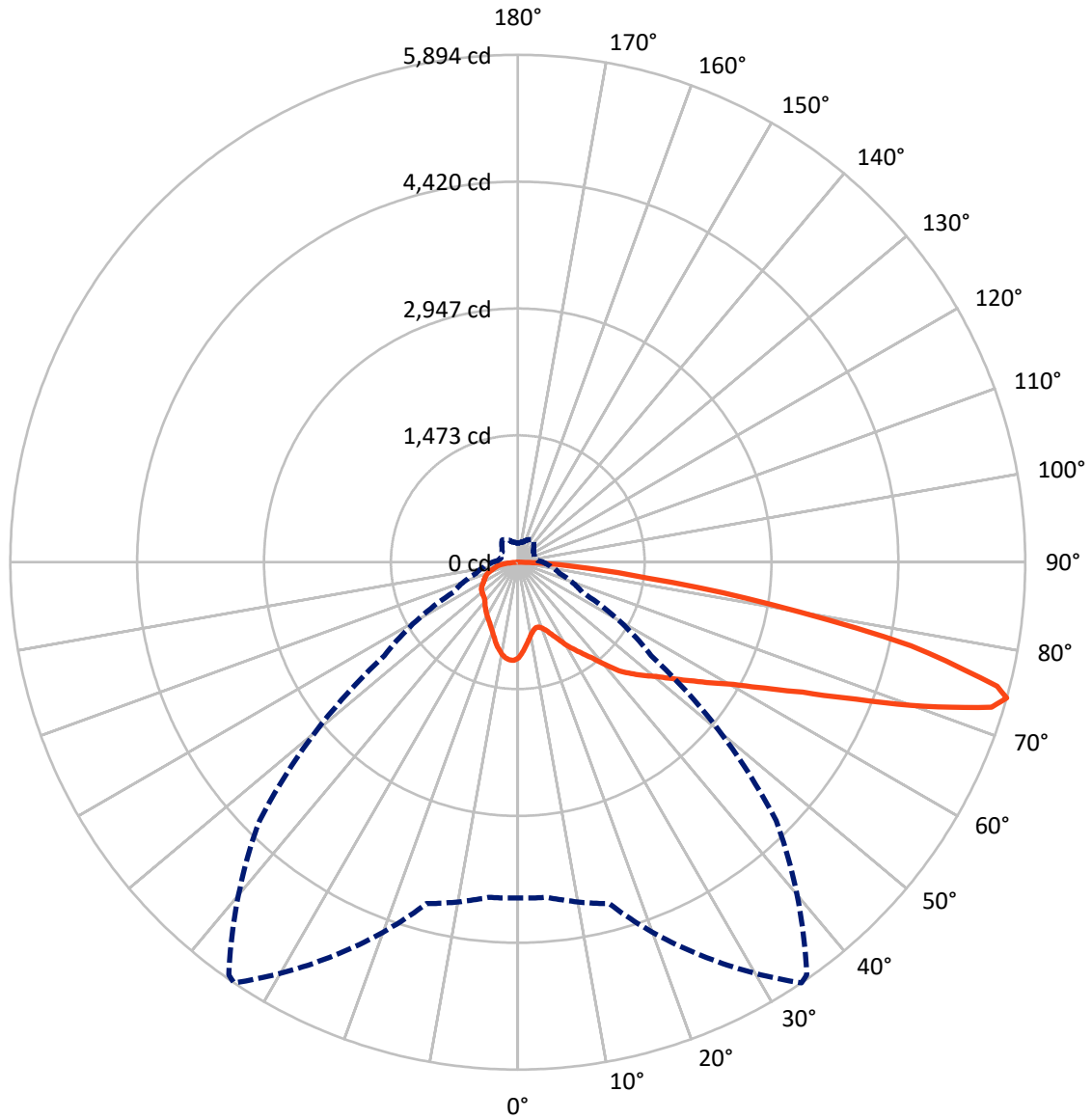
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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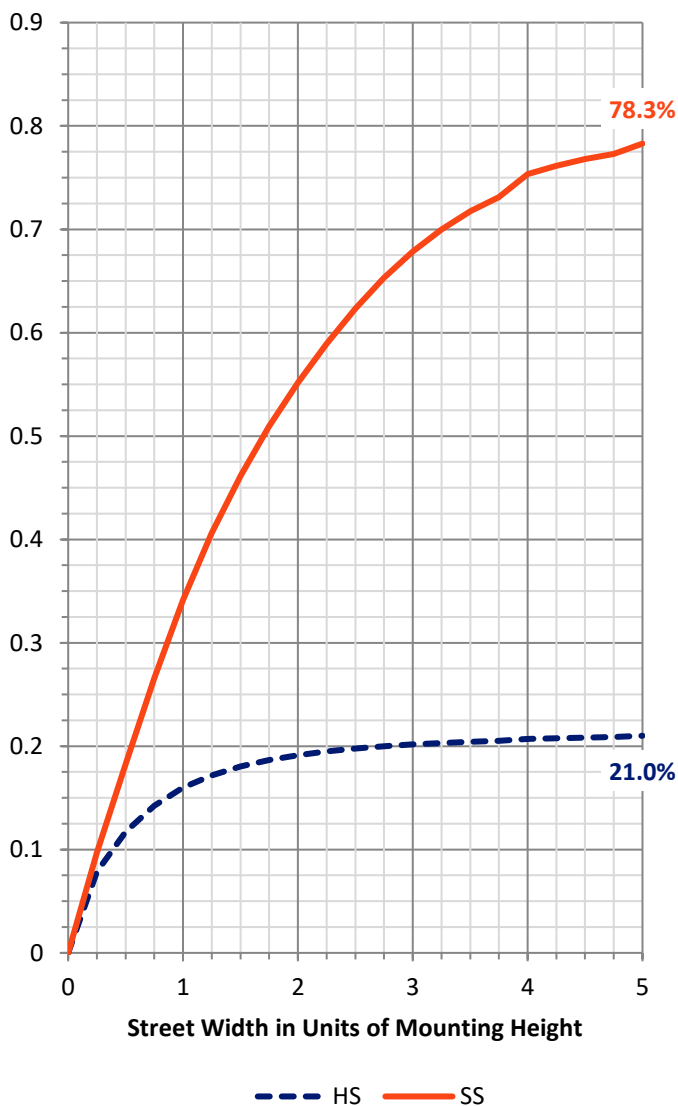
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.4	0.0	1548.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5727.6	0.0	5727.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	7276.0	0.0	7276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.4
10°-20°	276.6	3.8
20°-30°	456.0	6.3
30°-40°	683.0	9.4
40°-50°	992.9	13.6
50°-60°	1386.9	19.1
60°-70°	1736.3	23.9
70°-80°	1435.8	19.7
80°-90°	207.5	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°	7276.0	100.0
0°-180°	7276.0	100.0

Coefficient of Utilization



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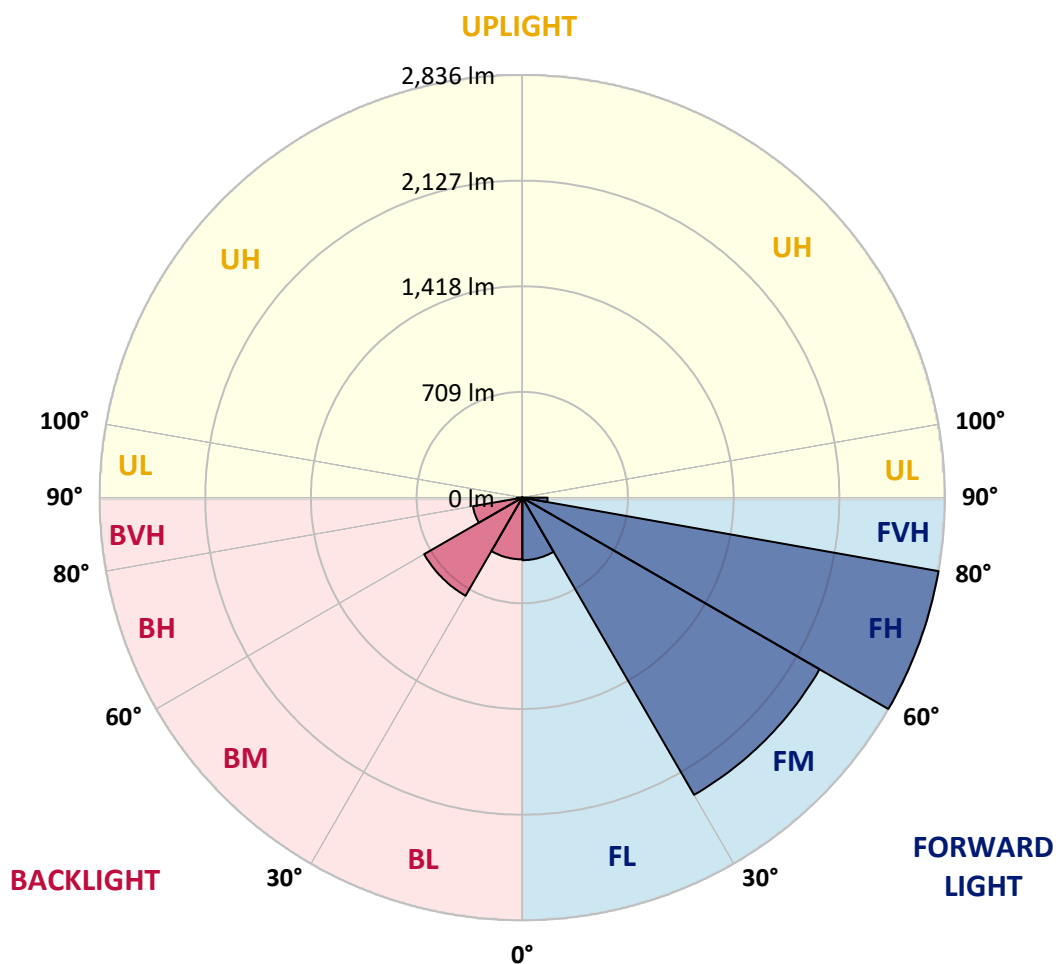
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.4	5.8			
FM (30°-60°)	2302.4	31.6			
FH (60°-80°)	2835.8	39.0			G2/5000
FVH (80°-90°)	170.0	2.3			G2/225
BL (0°-30°)	414.2	5.7	B1/500		
BM (30°-60°)	760.4	10.5	B1/1000		
BH (60°-80°)	336.3	4.6	B1/500		G1/500
BVH (80°-90°)	37.5	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°	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9
2.5°	1026.7	1031.9	1034.7	1044.8	1047.2	1050.4	1058.9	1070.2	1084.7	1097.6	1108.9
5°	941.2	949.3	954.1	963.0	980.3	981.9	1004.5	1030.3	1059.7	1087.1	1109.7
7.5°	860.2	869.1	873.1	889.2	912.2	915.8	948.9	989.6	1038.7	1080.3	1114.9
10°	799.3	803.8	812.6	824.7	852.1	854.5	897.7	952.1	1015.8	1077.0	1123.8
12.5°	766.3	768.7	770.7	783.6	810.6	814.2	859.4	921.0	997.6	1079.5	1138.3
15°	771.1	771.9	763.0	765.5	787.2	792.5	837.2	900.5	986.3	1085.5	1160.1
17.5°	811.8	809.0	787.2	775.9	791.3	793.7	832.8	892.4	981.1	1096.8	1182.7
20°	875.9	871.9	834.4	809.4	818.3	820.3	847.3	898.5	986.3	1115.3	1217.7
22.5°	955.7	954.1	897.3	867.0	866.6	866.6	880.7	920.2	1002.1	1140.7	1254.4
25°	1067.4	1058.9	984.7	945.6	934.8	933.9	932.3	956.1	1022.2	1167.7	1297.9
27.5°	1181.8	1167.3	1101.2	1041.2	1017.8	1015.0	1004.5	1006.9	1048.0	1198.4	1347.5
30°	1284.6	1275.4	1213.3	1146.8	1119.0	1112.5	1083.5	1070.2	1091.2	1253.6	1426.5
32.5°	1363.2	1357.6	1309.2	1248.8	1207.6	1206.4	1164.1	1153.2	1158.5	1320.5	1516.8
35°	1426.9	1428.9	1404.3	1351.9	1304.8	1297.9	1269.7	1256.0	1240.7	1417.2	1630.5
37.5°	1514.0	1518.4	1516.8	1471.7	1414.0	1415.6	1409.2	1386.6	1345.9	1525.3	1756.6
40°	1609.9	1613.1	1612.7	1595.4	1565.2	1566.8	1564.4	1538.6	1477.7	1662.7	1896.9
42.5°	1742.5	1727.2	1687.3	1704.6	1722.4	1730.0	1746.6	1722.0	1638.5	1809.4	2028.7
45°	1890.9	1861.8	1771.6	1779.6	1845.3	1859.8	1950.9	1917.1	1813.1	1977.9	2183.9
47.5°	1984.4	1955.8	1879.6	1878.0	1965.0	1979.1	2140.4	2127.9	1971.9	2159.7	2373.4
50°	2067.8	2063.8	1977.9	1998.5	2083.5	2104.5	2346.8	2335.1	2130.3	2374.2	2579.7
52.5°	2191.6	2158.9	2090.4	2132.7	2245.2	2272.6	2551.5	2517.3	2275.8	2563.6	2780.1
55°	2247.2	2239.5	2235.5	2272.2	2426.6	2446.3	2750.6	2672.0	2400.0	2724.0	2932.4
57.5°	2395.9	2381.8	2421.7	2446.7	2640.2	2670.4	2958.6	2833.7	2508.8	2851.4	3006.6
60°	2588.6	2581.0	2617.6	2662.8	2878.8	2924.8	3195.7	2971.5	2596.3	2915.5	2965.9
62.5°	2876.4	2875.6	2868.8	2965.5	3217.0	3259.3	3467.7	3105.8	2610.0	2867.5	2755.5
65°	3289.2	3274.7	3215.0	3320.6	3637.8	3687.4	3751.1	3180.7	2527.3	2621.3	2320.2
67.5°	3720.9	3720.1	3671.7	3808.7	4242.1	4293.3	4105.4	3164.2	2298.0	2123.4	1647.8
70°	4078.8	4061.5	4123.2	4488.3	5014.0	5073.2	4415.4	2969.5	1830.4	1402.3	979.1
72.5°	4164.7	4165.5	4293.7	5012.4	5755.2	5764.5	4527.0	2406.8	1225.0	773.5	489.7
74°	3900.2	3907.1	4105.8	5038.6	5893.5	5851.6	4241.7	1891.7	828.3	505.1	353.1
75°	3560.0	3516.9	3804.3	4864.0	5750.0	5704.9	3907.5	1518.0	632.0	403.5	309.2
77.5°	1903.4	1947.3	2390.7	3629.8	4671.3	4619.4	2649.5	728.0	341.4	281.0	222.5
80°	677.6	747.3	1050.4	1899.3	2994.9	3011.0	1264.5	333.8	240.2	207.2	157.2
82.5°	276.5	284.2	451.1	842.9	1520.8	1535.3	516.4	198.3	171.7	142.7	93.9
85°	108.0	111.3	199.5	378.9	649.0	691.3	178.6	104.8	105.6	81.8	48.0
87.5°	36.3	41.1	81.8	126.2	220.5	216.1	52.0	31.0	37.9	35.5	14.9
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°	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9	1110.9
2.5°	1114.5	1122.2	1127.4	1133.1	1138.3	1139.9	1138.7	1142.3	1142.7	1143.1	1143.6
5°	1121.0	1131.5	1141.5	1147.2	1149.6	1147.6	1140.7	1137.1	1133.9	1131.5	1132.3
7.5°	1129.8	1144.8	1154.0	1156.4	1150.0	1140.7	1123.8	1110.5	1102.0	1096.4	1096.0
10°	1143.6	1158.1	1165.7	1158.9	1141.1	1118.6	1092.0	1067.0	1048.0	1042.4	1042.0
12.5°	1160.9	1177.4	1177.0	1156.9	1125.8	1085.5	1042.4	1013.4	987.6	974.7	979.9
15°	1183.5	1196.0	1184.3	1148.0	1098.8	1043.6	990.4	950.9	921.9	908.1	909.0
17.5°	1209.7	1220.5	1189.5	1132.3	1060.9	990.0	928.3	890.8	867.8	857.8	857.0
20°	1242.3	1245.5	1189.5	1104.9	1012.1	927.5	868.6	842.4	829.5	824.3	825.9
22.5°	1277.4	1270.9	1183.1	1066.2	948.1	862.2	822.7	811.0	804.6	803.8	804.6
25°	1316.9	1298.7	1169.8	1013.8	881.1	805.8	782.8	784.8	786.0	786.0	788.8
27.5°	1365.2	1329.0	1147.6	947.7	802.9	753.4	746.9	761.0	767.5	768.7	770.7
30°	1428.9	1362.0	1110.9	865.0	736.4	706.2	717.5	736.4	743.7	748.1	747.3
32.5°	1504.7	1398.3	1061.3	782.4	682.8	673.2	686.9	706.2	714.3	716.7	713.5
35°	1593.8	1439.4	996.0	705.0	636.1	641.7	657.8	663.9	671.1	671.1	672.7
37.5°	1689.7	1472.5	916.2	634.1	599.8	620.3	632.0	626.4	623.2	619.1	621.2
40°	1787.3	1497.1	812.6	563.9	563.5	598.2	601.4	585.3	572.4	568.3	566.3
42.5°	1872.3	1512.4	719.1	509.5	529.3	576.4	578.8	553.0	532.5	520.4	516.4
45°	1972.7	1530.1	627.6	464.4	497.4	559.1	565.1	530.5	500.2	474.8	468.4
47.5°	2110.1	1570.4	555.5	429.3	474.4	548.2	556.7	511.9	472.0	439.0	433.7
50°	2265.3	1625.6	499.4	405.5	456.7	538.5	549.0	493.0	445.8	409.1	405.1
52.5°	2407.6	1655.5	451.1	384.1	439.4	520.8	538.9	479.3	420.0	379.3	375.7
55°	2485.4	1607.1	403.5	363.2	415.6	497.8	524.8	460.3	395.0	363.6	358.3
57.5°	2495.9	1507.1	360.4	340.6	390.6	469.6	498.6	437.3	378.9	352.7	348.3
60°	2414.9	1358.0	326.9	322.1	365.2	437.7	469.2	417.2	362.4	340.6	336.2
62.5°	2213.3	1196.0	303.5	305.1	339.4	404.3	447.4	397.8	346.7	327.3	323.3
65°	1866.7	987.2	281.0	287.8	316.4	378.1	427.7	381.7	330.9	317.2	313.6
67.5°	1296.7	712.7	262.4	269.7	294.7	351.5	404.7	364.4	313.2	305.9	300.3
70°	717.9	438.6	240.6	249.1	272.1	321.7	378.9	338.2	287.4	284.2	276.1
72.5°	377.3	279.3	216.1	225.3	241.4	283.4	339.4	309.6	262.0	248.3	237.8
74°	294.7	229.0	199.5	209.2	220.1	260.8	316.0	289.0	243.9	227.7	219.7
75°	256.8	204.0	185.4	197.9	207.6	245.5	297.9	274.5	233.8	218.5	211.2
77.5°	181.4	152.8	151.6	166.5	171.7	215.2	268.5	249.9	208.4	192.3	185.4
80°	127.4	114.5	120.1	129.4	136.6	190.3	249.1	216.1	170.9	152.0	149.5
82.5°	83.0	75.0	85.9	94.3	96.7	140.3	201.1	164.1	124.6	101.2	93.9
85°	38.3	37.5	49.2	48.0	47.6	68.5	119.3	95.9	71.7	53.6	50.4
87.5°	9.7	9.3	12.1	10.1	12.1	10.5	10.9	2.8	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)