

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: P450506

Luminaire Tested: **GALN-SA1B-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450506
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-SA1B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5745 lumens
Efficiency: N/A
Efficacy: 130.6 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

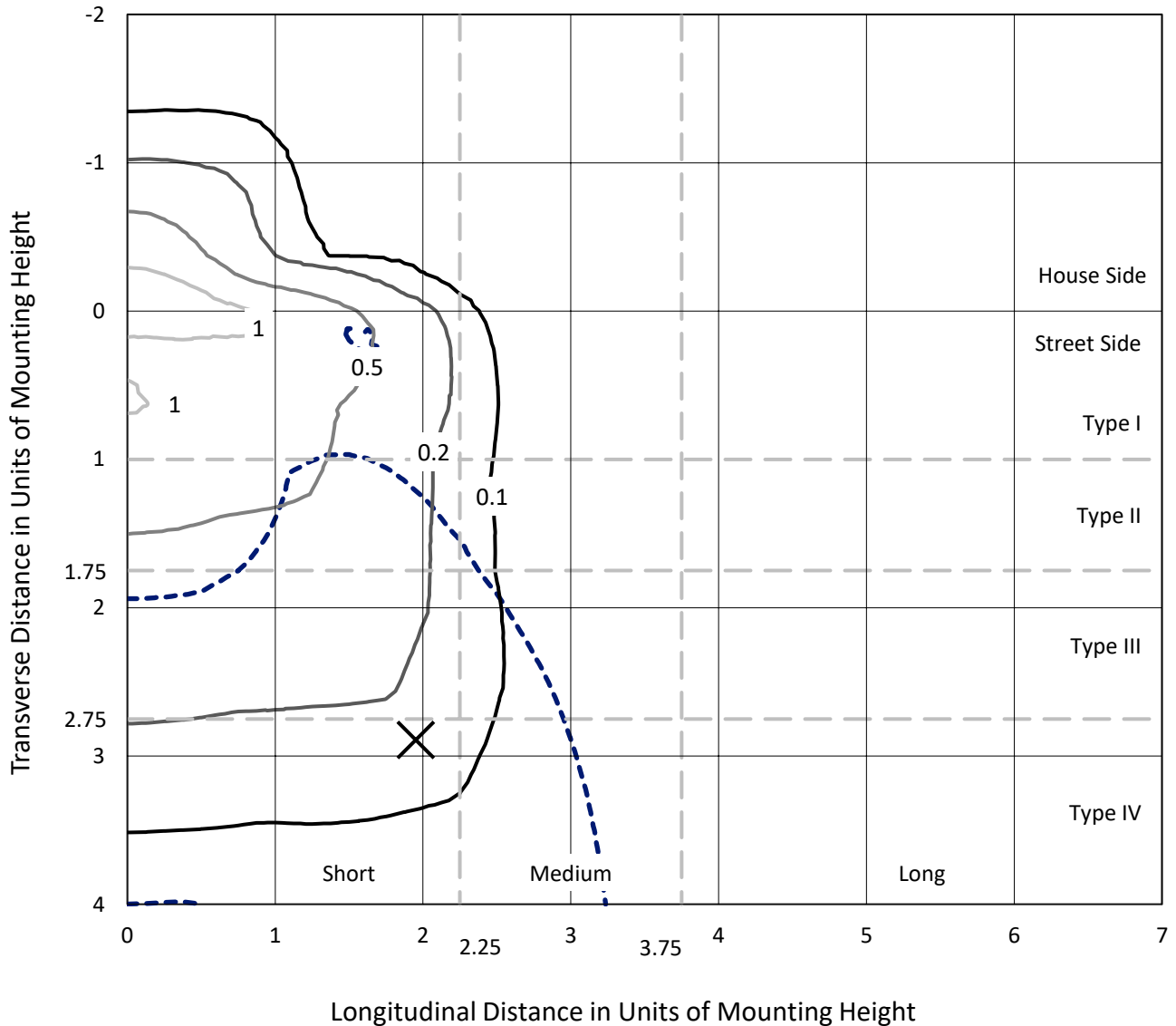
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

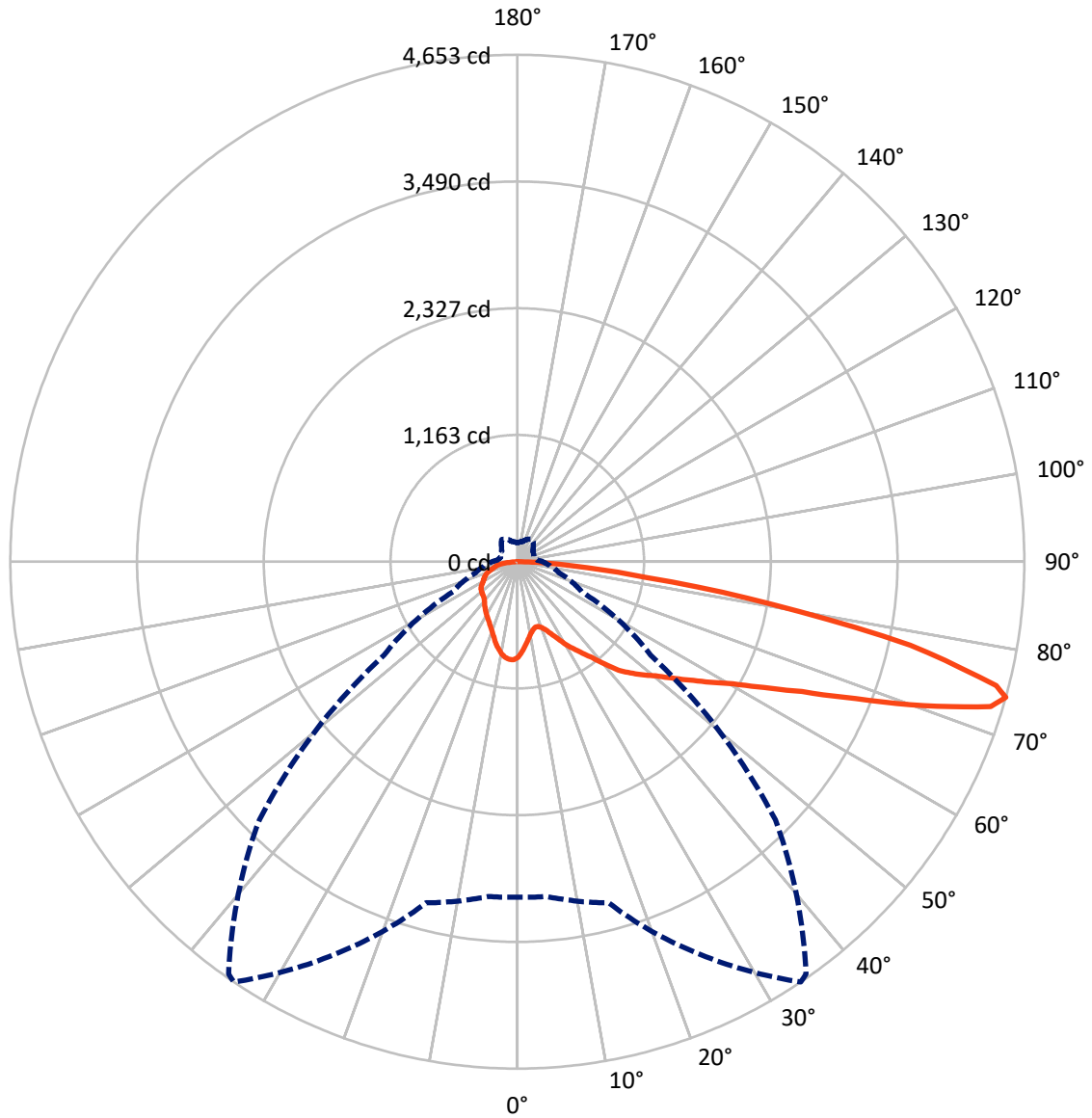
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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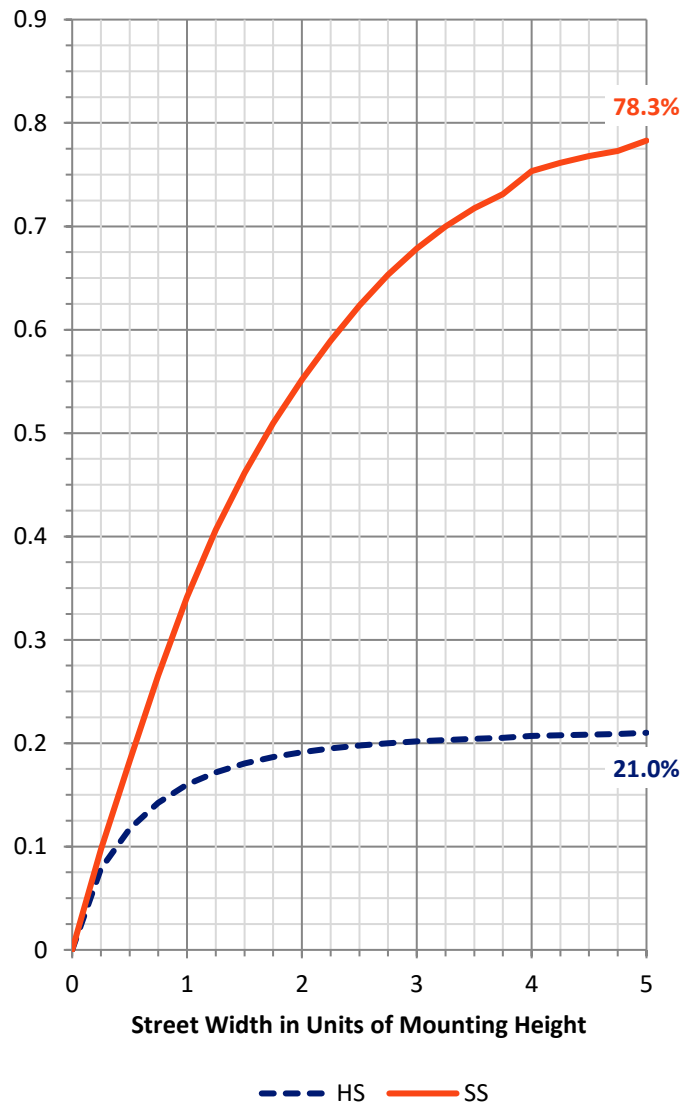
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.6	0.0	1222.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4522.4	0.0	4522.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	5745.0	0.0	5745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.4
10°-20°	218.4	3.8
20°-30°	360.0	6.3
30°-40°	539.3	9.4
40°-50°	784.0	13.6
50°-60°	1095.1	19.1
60°-70°	1371.0	23.9
70°-80°	1133.7	19.7
80°-90°	163.8	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°	5745.0	100.0
0°-180°	5745.0	100.0



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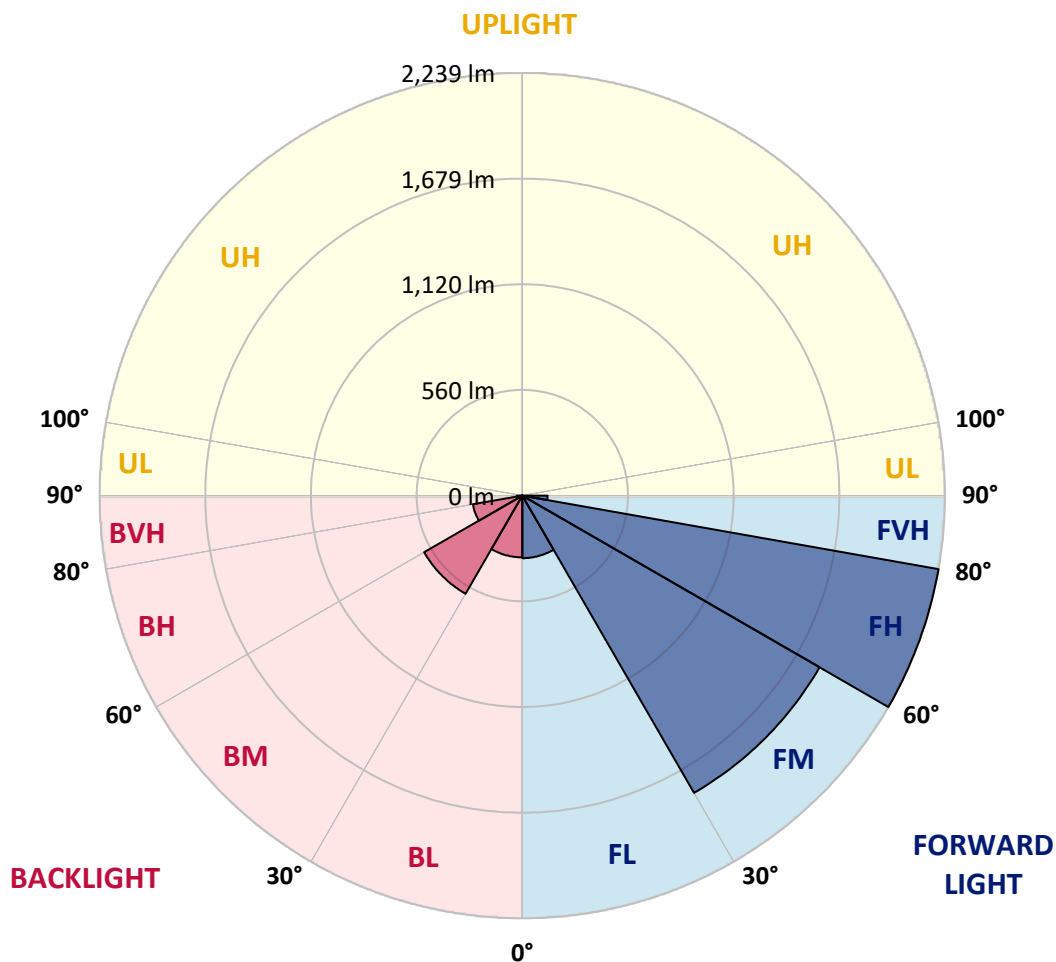
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.2	5.8			
FM (30°-60°)	1818.0	31.6			
FH (60°-80°)	2239.1	39.0			G2/5000
FVH (80°-90°)	134.2	2.3			G2/225
BL (0°-30°)	327.0	5.7	B1/500		
BM (30°-60°)	600.4	10.5	B1/1000		
BH (60°-80°)	265.5	4.6	B1/500		G1/500
BVH (80°-90°)	29.6	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°	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1
2.5°	810.6	814.8	817.0	825.0	826.9	829.4	836.1	845.0	856.5	866.6	875.6
5°	743.2	749.5	753.3	760.3	774.0	775.3	793.1	813.5	836.7	858.4	876.2
7.5°	679.2	686.2	689.4	702.1	720.2	723.1	749.2	781.3	820.2	853.0	880.3
10°	631.1	634.6	641.6	651.2	672.8	674.7	708.8	751.8	802.0	850.4	887.3
12.5°	605.0	606.9	608.5	618.7	640.0	642.9	678.5	727.2	787.7	852.3	898.8
15°	608.8	609.5	602.5	604.4	621.6	625.7	661.0	711.0	778.8	857.1	916.0
17.5°	641.0	638.8	621.6	612.7	624.8	626.7	657.5	704.6	774.7	866.0	933.8
20°	691.6	688.4	658.8	639.1	646.1	647.7	669.0	709.4	778.8	880.6	961.5
22.5°	754.6	753.3	708.5	684.6	684.3	684.3	695.4	726.6	791.2	900.7	990.5
25°	842.8	836.1	777.5	746.7	738.1	737.4	736.2	754.9	807.1	922.0	1024.8
27.5°	933.2	921.7	869.5	822.1	803.6	801.4	793.1	795.0	827.5	946.2	1064.0
30°	1014.3	1007.0	958.0	905.5	883.5	878.4	855.5	845.0	861.6	989.8	1126.4
32.5°	1076.4	1071.9	1033.7	986.0	953.5	952.6	919.2	910.6	914.7	1042.6	1197.6
35°	1126.7	1128.3	1108.8	1067.5	1030.2	1024.8	1002.5	991.7	979.6	1119.0	1287.4
37.5°	1195.4	1198.9	1197.6	1162.0	1116.5	1117.8	1112.7	1094.8	1062.7	1204.3	1387.0
40°	1271.2	1273.7	1273.4	1259.7	1235.8	1237.1	1235.2	1214.8	1166.8	1312.9	1497.8
42.5°	1375.9	1363.8	1332.3	1346.0	1360.0	1366.0	1379.1	1359.6	1293.8	1428.7	1601.8
45°	1493.0	1470.1	1398.8	1405.2	1457.0	1468.5	1540.4	1513.7	1431.6	1561.7	1724.4
47.5°	1566.8	1544.2	1484.1	1482.8	1551.6	1562.7	1690.0	1680.1	1557.0	1705.3	1874.0
50°	1632.7	1629.5	1561.7	1578.0	1645.1	1661.7	1853.0	1843.7	1682.0	1874.6	2036.9
52.5°	1730.4	1704.6	1650.5	1684.0	1772.8	1794.4	2014.6	1987.6	1796.9	2024.2	2195.1
55°	1774.3	1768.3	1765.1	1794.1	1916.0	1931.6	2171.9	2109.8	1895.0	2150.9	2315.4
57.5°	1891.8	1880.6	1912.2	1931.9	2084.7	2108.5	2336.1	2237.4	1980.9	2251.4	2374.0
60°	2043.9	2037.9	2066.8	2102.5	2273.1	2309.4	2523.2	2346.3	2050.0	2302.0	2341.8
62.5°	2271.2	2270.5	2265.1	2341.5	2540.1	2573.5	2738.1	2452.3	2060.8	2264.2	2175.7
65°	2597.1	2585.6	2538.5	2621.9	2872.4	2911.5	2961.8	2511.5	1995.5	2069.7	1832.0
67.5°	2937.9	2937.3	2899.1	3007.3	3349.5	3389.9	3241.6	2498.4	1814.4	1676.6	1301.1
70°	3220.6	3206.9	3255.6	3543.9	3958.9	4005.7	3486.3	2344.7	1445.3	1107.3	773.1
72.5°	3288.3	3289.0	3390.2	3957.7	4544.2	4551.6	3574.5	1900.4	967.2	610.8	386.7
74°	3079.6	3085.0	3241.9	3978.4	4653.4	4620.3	3349.1	1493.6	654.0	398.8	278.8
75°	2810.9	2776.9	3003.8	3840.5	4540.1	4504.5	3085.3	1198.6	499.0	318.6	244.1
77.5°	1502.9	1537.6	1887.7	2866.0	3688.4	3647.4	2092.0	574.8	269.6	221.8	175.7
80°	535.0	590.1	829.4	1499.7	2364.7	2377.5	998.4	263.5	189.7	163.6	124.1
82.5°	218.3	224.4	356.1	665.5	1200.8	1212.3	407.7	156.6	135.6	112.7	74.2
85°	85.3	87.8	157.5	299.2	512.4	545.8	141.0	82.7	83.4	64.6	37.9
87.5°	28.6	32.5	64.6	99.6	174.1	170.6	41.1	24.5	29.9	28.0	11.8
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°	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1
2.5°	880.0	886.1	890.2	894.7	898.8	900.1	899.1	902.0	902.3	902.6	902.9
5°	885.1	893.4	901.3	905.8	907.7	906.1	900.7	897.8	895.3	893.4	894.0
7.5°	892.1	903.9	911.2	913.1	908.0	900.7	887.3	876.8	870.1	865.7	865.4
10°	902.9	914.4	920.4	915.0	901.0	883.2	862.2	842.5	827.5	823.0	822.7
12.5°	916.6	929.7	929.3	913.4	888.9	857.1	823.0	800.1	779.8	769.6	773.7
15°	934.4	944.3	935.1	906.4	867.6	824.0	782.0	750.8	727.9	717.1	717.7
17.5°	955.1	963.7	939.2	894.0	837.7	781.7	733.0	703.4	685.2	677.3	676.6
20°	980.9	983.4	939.2	872.4	799.2	732.3	685.9	665.2	655.0	650.9	652.1
22.5°	1008.6	1003.5	934.1	841.8	748.6	680.8	649.6	640.4	635.3	634.6	635.3
25°	1039.8	1025.5	923.6	800.4	695.7	636.2	618.1	619.7	620.6	620.6	622.9
27.5°	1078.0	1049.3	906.1	748.2	634.0	594.8	589.8	600.9	606.0	606.9	608.5
30°	1128.3	1075.4	877.1	683.0	581.5	557.6	566.5	581.5	587.2	590.7	590.1
32.5°	1188.1	1104.1	838.0	617.8	539.1	531.5	542.3	557.6	564.0	565.9	563.3
35°	1258.4	1136.5	786.4	556.7	502.2	506.7	519.4	524.2	529.9	529.9	531.2
37.5°	1334.2	1162.6	723.4	500.6	473.6	489.8	499.0	494.6	492.0	488.9	490.5
40°	1411.2	1182.0	641.6	445.3	444.9	472.3	474.9	462.1	451.9	448.8	447.2
42.5°	1478.4	1194.1	567.8	402.3	417.9	455.1	457.0	436.7	420.4	410.9	407.7
45°	1557.6	1208.1	495.5	366.6	392.7	441.4	446.2	418.8	395.0	374.9	369.8
47.5°	1666.1	1240.0	438.6	339.0	374.6	432.8	439.5	404.2	372.7	346.6	342.5
50°	1788.7	1283.6	394.3	320.2	360.6	425.2	433.5	389.2	352.0	323.0	319.9
52.5°	1901.0	1307.1	356.1	303.3	346.9	411.2	425.5	378.4	331.6	299.5	296.6
55°	1962.4	1268.9	318.6	286.8	328.1	393.1	414.4	363.5	311.9	287.1	282.9
57.5°	1970.7	1190.0	284.5	268.9	308.4	370.8	393.7	345.3	299.2	278.5	275.0
60°	1906.7	1072.2	258.1	254.3	288.4	345.6	370.5	329.4	286.1	268.9	265.4
62.5°	1747.6	944.3	239.7	240.9	268.0	319.2	353.3	314.1	273.7	258.4	255.3
65°	1473.9	779.4	221.8	227.2	249.8	298.5	337.7	301.4	261.3	250.5	247.6
67.5°	1023.9	562.7	207.2	212.9	232.7	277.5	319.5	287.7	247.3	241.6	237.1
70°	566.8	346.3	190.0	196.7	214.8	254.0	299.2	267.0	226.9	224.4	218.0
72.5°	297.9	220.6	170.6	177.9	190.6	223.7	268.0	244.4	206.9	196.1	187.8
74°	232.7	180.8	157.5	165.2	173.8	205.9	249.5	228.2	192.6	179.8	173.5
75°	202.7	161.0	146.4	156.3	163.9	193.8	235.2	216.7	184.6	172.5	166.8
77.5°	143.2	120.6	119.7	131.4	135.6	170.0	212.0	197.3	164.5	151.8	146.4
80°	100.6	90.4	94.8	102.2	107.9	150.2	196.7	170.6	134.9	120.0	118.1
82.5°	65.6	59.2	67.8	74.5	76.4	110.8	158.8	129.5	98.3	79.9	74.2
85°	30.2	29.6	38.8	37.9	37.6	54.1	94.2	75.7	56.7	42.3	39.8
87.5°	7.6	7.3	9.5	8.0	9.5	8.3	8.6	2.2	0.3	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)