

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: P454072

Luminaire Tested: **GALN-SA5A-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12123 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

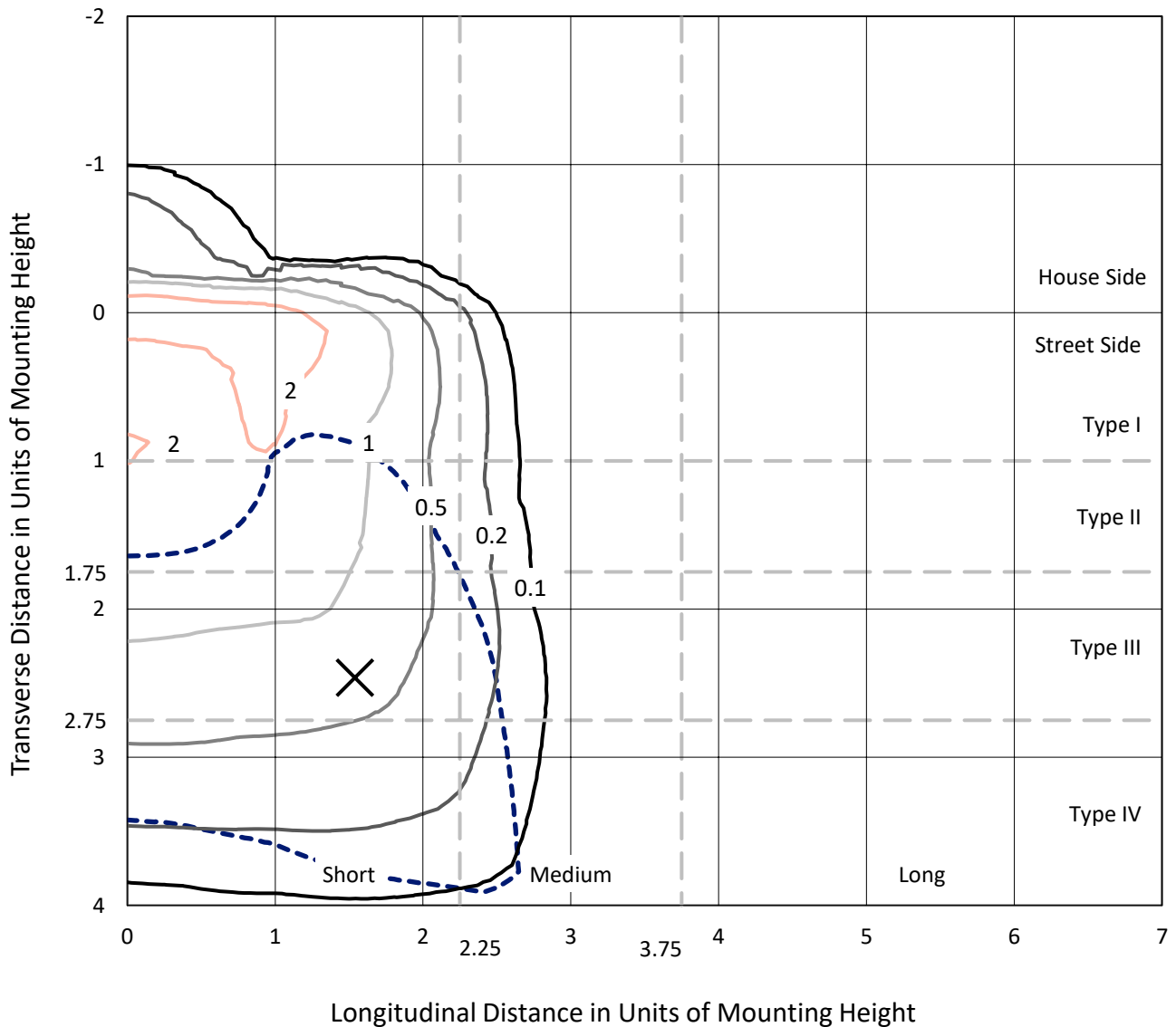
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

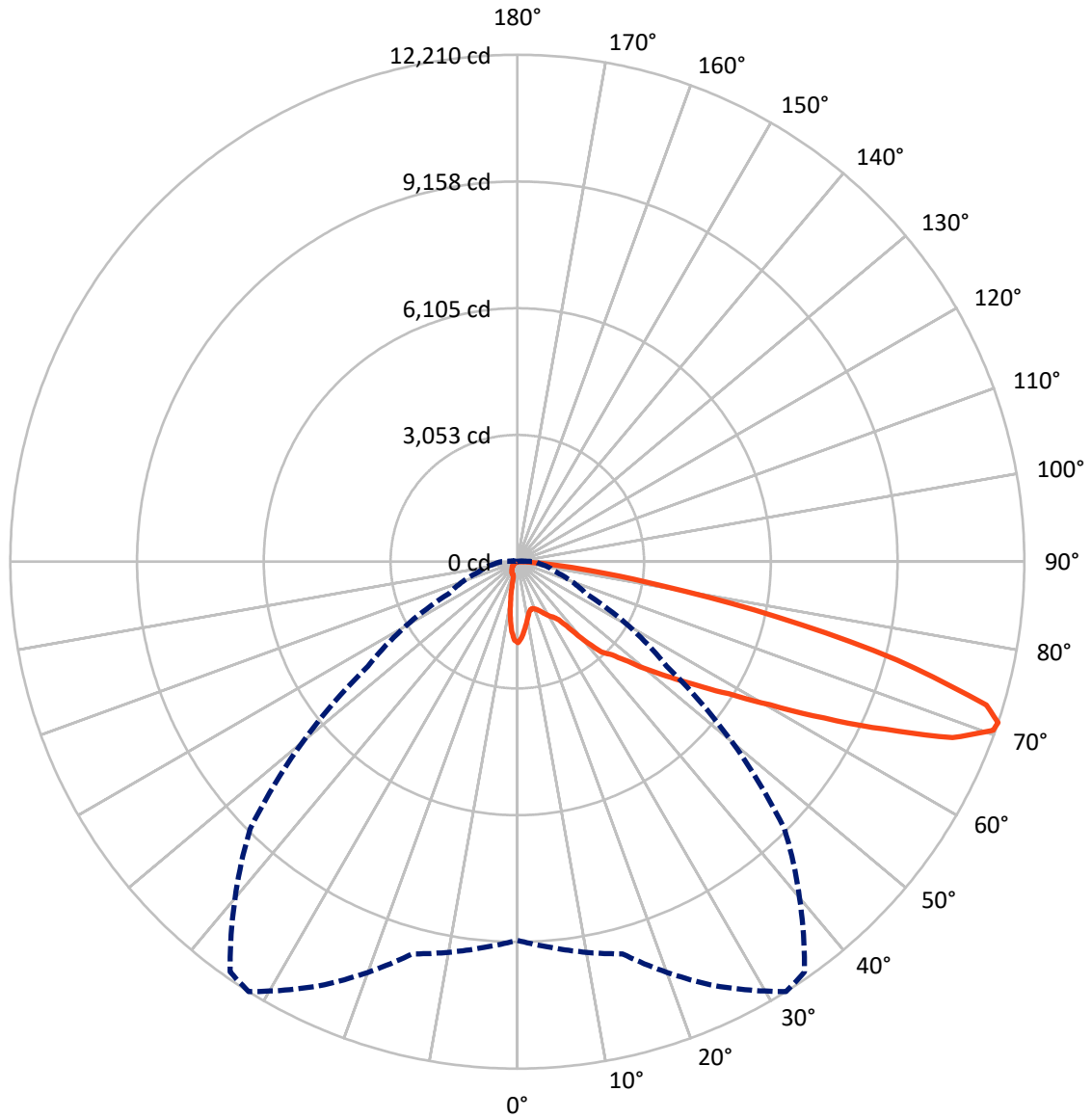
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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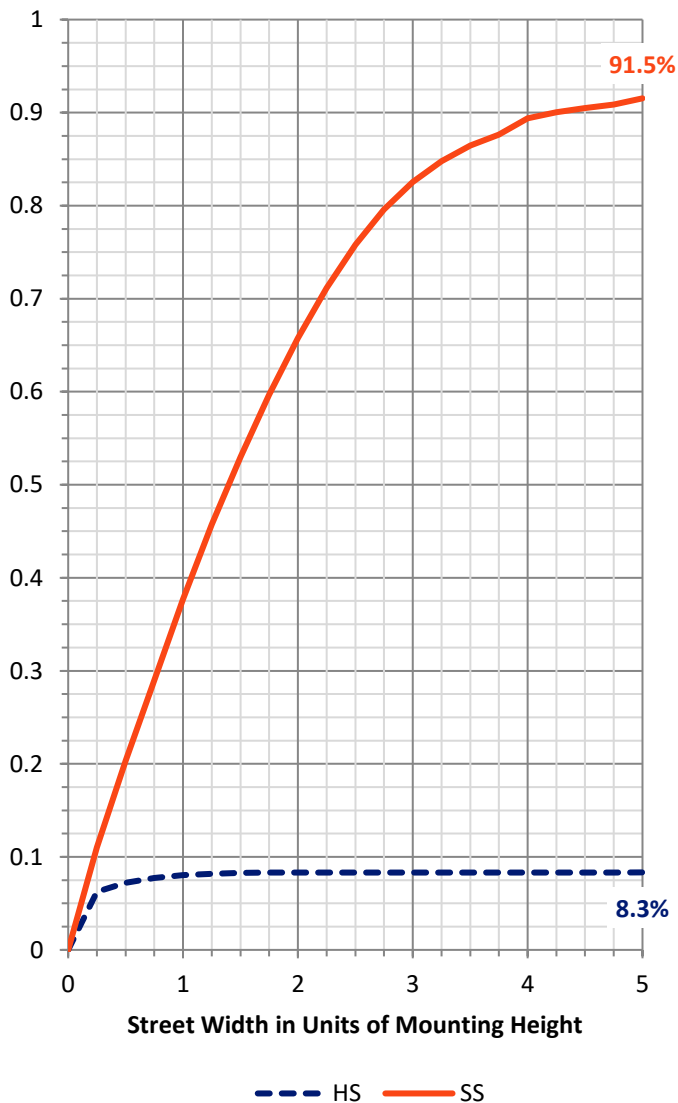
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.4	0.0	1015.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11107.6	0.0	11107.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	12123.0	0.0	12123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.3
10°-20°	344.1	2.8
20°-30°	535.2	4.4
30°-40°	891.7	7.4
40°-50°	1658.7	13.7
50°-60°	2663.1	22.0
60°-70°	3582.1	29.5
70°-80°	2125.3	17.5
80°-90°	164.3	1.4
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°	12123.0	100.0
0°-180°	12123.0	100.0

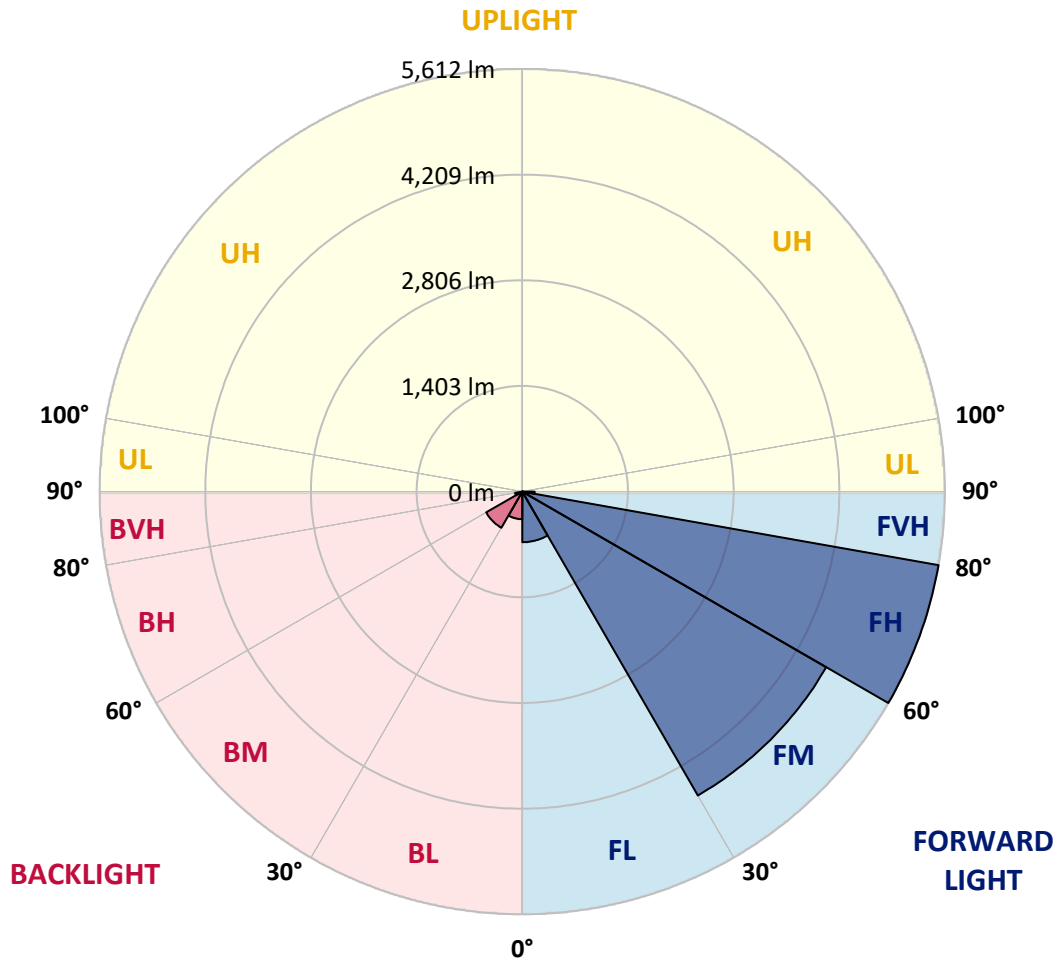


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.9	5.5			
FM (30°-60°)	4659.6	38.4			
FH (60°-80°)	5612.4	46.3			G3/7500
FVH (80°-90°)	163.6	1.3			G2/225
BL (0°-30°)	365.9	3.0	B1/500		
BM (30°-60°)	553.9	4.6	B1/1000		
BH (60°-80°)	95.0	0.8	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1808.1	1826.7	1823.9	1830.5	1846.3	1852.8	1870.5	1890.0	1917.0	1935.6	1947.7
5°	1619.2	1633.2	1635.0	1667.6	1683.4	1701.1	1753.2	1810.0	1873.3	1923.5	1957.0
7.5°	1417.3	1424.7	1439.6	1482.4	1522.4	1540.1	1619.2	1717.9	1817.4	1911.4	1971.9
10°	1250.7	1259.1	1286.1	1331.7	1368.9	1392.1	1502.0	1625.7	1765.3	1904.9	1993.3
12.5°	1155.8	1160.4	1170.7	1211.6	1259.1	1284.2	1402.4	1543.8	1723.4	1907.7	2029.6
15°	1149.3	1147.4	1135.3	1152.1	1194.9	1220.9	1336.3	1488.0	1686.2	1917.0	2072.4
17.5°	1183.7	1179.0	1150.2	1150.2	1185.6	1207.0	1308.4	1458.2	1667.6	1938.4	2132.9
20°	1236.7	1229.3	1181.8	1178.1	1212.5	1234.9	1325.1	1460.1	1671.3	1978.4	2213.9
22.5°	1303.7	1295.4	1223.7	1225.6	1262.8	1285.1	1373.5	1493.6	1694.6	2027.7	2300.4
25°	1391.2	1381.9	1297.2	1293.5	1332.6	1352.1	1445.2	1553.1	1727.2	2089.2	2413.9
27.5°	1507.5	1488.0	1386.6	1381.0	1422.9	1448.0	1531.7	1633.2	1784.9	2173.8	2566.5
30°	1603.4	1582.0	1485.2	1470.3	1515.0	1534.5	1621.1	1741.1	1898.4	2321.8	2777.8
32.5°	1729.0	1697.4	1583.8	1544.8	1592.2	1617.4	1750.4	1942.1	2066.8	2478.1	3029.0
35°	2011.9	1992.4	1853.7	1716.9	1714.1	1745.8	1941.2	2145.0	2239.9	2722.0	3371.5
37.5°	2416.7	2402.8	2255.7	2072.4	2019.4	2004.5	2172.9	2368.3	2516.3	3057.0	3769.8
40°	2886.7	2854.1	2719.2	2563.8	2494.9	2451.2	2446.5	2700.5	2877.4	3512.0	4184.8
42.5°	3223.5	3164.0	3000.2	2989.0	2974.1	2928.5	2796.4	3186.3	3343.6	4001.5	4628.7
45°	3577.2	3486.9	3243.1	3201.2	3195.6	3192.8	3325.0	3761.4	3851.7	4531.9	5084.7
47.5°	3851.7	3780.0	3579.9	3561.3	3584.6	3647.9	4023.8	4371.9	4353.3	5004.7	5467.2
50°	4217.4	4163.4	3941.0	3976.4	4096.4	4199.7	4812.0	5037.2	4765.5	5376.9	5745.4
52.5°	4649.2	4549.6	4343.0	4438.9	4623.1	4795.3	5648.6	5619.8	5054.9	5657.0	5952.9
55°	5023.3	4952.6	4881.8	4981.4	5256.9	5471.8	6404.3	6056.2	5265.2	5882.2	6044.1
57.5°	5656.1	5639.3	5566.7	5668.2	6002.2	6225.6	7080.8	6395.0	5400.2	5999.5	5937.1
60°	6592.2	6565.3	6430.3	6559.7	6995.2	7346.0	7704.3	6699.3	5430.9	5953.9	5629.1
62.5°	7718.2	7626.1	7510.7	7701.5	8298.9	8453.4	8291.5	6879.8	5316.4	5590.9	4886.5
65°	8769.8	8674.9	8677.7	9079.7	9730.2	9835.3	8976.4	6852.8	4981.4	4681.8	3604.1
67.5°	9574.8	9558.9	9672.5	10456.9	11307.5	11234.9	9588.7	6448.9	3988.5	3034.6	1915.1
70°	9615.7	9646.4	9972.1	11296.3	12159.9	12044.5	9536.6	5242.0	2486.5	1395.9	754.7
71°	9120.6	9327.2	9777.6	11270.3	12210.2	12060.3	9097.4	4390.5	1823.9	973.4	544.4
72.5°	7772.2	7881.1	8854.5	10606.8	11812.8	11492.7	7983.5	3077.4	1167.9	595.6	312.7
75°	4280.7	4548.7	5929.7	8321.3	9448.2	9167.2	5202.9	1461.9	582.5	325.7	129.4
77.5°	2038.0	1985.9	2893.2	4948.8	6406.1	6391.2	2621.4	649.5	339.7	220.5	65.1
80°	582.5	655.1	1107.4	2352.5	3556.7	3595.8	1006.9	313.6	235.4	172.2	33.5
82.5°	175.9	179.6	406.7	1040.4	1769.0	1667.6	377.8	160.1	169.4	136.8	19.5
85°	30.7	38.2	120.0	366.6	674.7	511.8	94.9	76.3	111.7	90.3	11.2
87.5°	1.9	2.8	40.0	41.9	59.6	34.4	16.8	11.2	24.2	24.2	6.5
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°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6
2.5°	1956.1	1961.7	1957.9	1949.6	1935.6	1918.9	1896.5	1877.9	1862.1	1853.7	1864.0
5°	1968.2	1975.6	1957.0	1915.1	1851.9	1783.0	1704.8	1644.3	1596.9	1582.0	1576.4
7.5°	1986.8	1991.4	1941.2	1848.1	1714.1	1551.3	1408.9	1288.9	1195.8	1167.9	1126.9
10°	2011.0	2008.2	1913.3	1740.2	1504.7	1260.0	1039.5	875.7	751.9	707.2	703.5
12.5°	2048.2	2033.3	1877.9	1593.2	1255.4	935.2	662.6	518.3	440.2	414.1	408.5
15°	2094.7	2059.4	1822.1	1421.0	961.3	603.9	408.5	364.8	354.6	352.7	350.8
17.5°	2149.6	2093.8	1748.6	1209.8	675.6	391.8	341.5	340.6	341.5	339.7	338.7
20°	2224.1	2130.1	1661.1	959.4	446.7	330.4	325.7	325.7	326.6	325.7	325.7
22.5°	2303.2	2172.9	1553.1	732.4	336.9	313.6	312.7	314.5	316.4	315.5	315.5
25°	2400.9	2228.7	1410.8	501.6	301.5	299.6	300.6	304.3	308.0	309.0	308.0
27.5°	2542.3	2297.6	1258.1	345.2	276.4	278.2	287.5	296.9	302.4	303.4	303.4
30°	2701.5	2373.9	1059.0	280.1	255.9	255.9	267.1	284.8	296.9	298.7	299.6
32.5°	2906.2	2462.3	838.5	252.2	236.4	234.5	244.7	266.1	288.5	295.0	295.0
35°	3159.3	2566.5	623.5	234.5	222.4	217.8	223.3	241.0	269.9	288.5	290.3
37.5°	3456.2	2665.2	456.0	218.7	209.4	202.9	206.6	220.5	243.8	271.7	279.2
40°	3730.7	2752.7	340.6	205.7	196.4	191.7	194.5	201.0	220.5	246.6	251.3
42.5°	4030.3	2820.6	270.8	191.7	183.3	181.5	181.5	184.3	197.3	212.2	213.1
45°	4329.1	2844.8	227.1	174.9	169.4	171.2	170.3	168.4	174.0	172.2	172.2
47.5°	4542.2	2815.9	188.0	159.1	159.1	161.9	157.3	150.8	148.0	136.8	137.7
50°	4688.3	2710.8	154.5	140.5	148.0	151.7	142.4	132.1	121.9	109.8	107.0
52.5°	4748.8	2523.7	126.6	116.3	131.2	135.9	124.7	112.6	96.8	86.5	83.8
55°	4709.7	2293.0	105.2	94.9	110.7	116.3	105.2	91.2	73.5	62.3	60.5
57.5°	4537.5	2017.5	89.3	75.4	88.4	92.1	84.7	69.8	52.1	40.9	40.9
60°	4239.7	1732.7	72.6	59.6	66.1	71.7	64.2	50.3	35.4	25.1	23.3
62.5°	3635.8	1407.0	58.6	46.5	46.5	51.2	44.7	36.3	22.3	13.0	12.1
65°	2625.2	965.0	46.5	34.4	33.5	33.5	27.9	24.2	13.0	5.6	3.7
67.5°	1426.6	544.4	37.2	26.1	23.3	22.3	17.7	14.0	5.6	0.9	0.0
70°	561.1	209.4	28.8	17.7	14.9	14.0	9.3	6.5	3.7	0.0	0.0
71°	380.6	144.2	25.1	14.9	12.1	10.2	7.4	5.6	2.8	0.0	0.0
72.5°	217.8	89.3	19.5	11.2	9.3	7.4	5.6	3.7	2.8	0.0	0.0
75°	94.9	45.6	12.1	8.4	6.5	4.7	3.7	2.8	0.9	0.0	0.0
77.5°	48.4	25.1	8.4	6.5	3.7	2.8	1.9	0.9	0.0	0.0	0.0
80°	27.0	13.0	5.6	3.7	2.8	1.9	0.9	0.9	0.0	0.0	0.0
82.5°	14.9	7.4	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.9	0.0	0.0	0.0	0.0	0.9	0.9	0.0	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)