

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: P528918

Luminaire Tested: **GALN-SA4A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14809 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

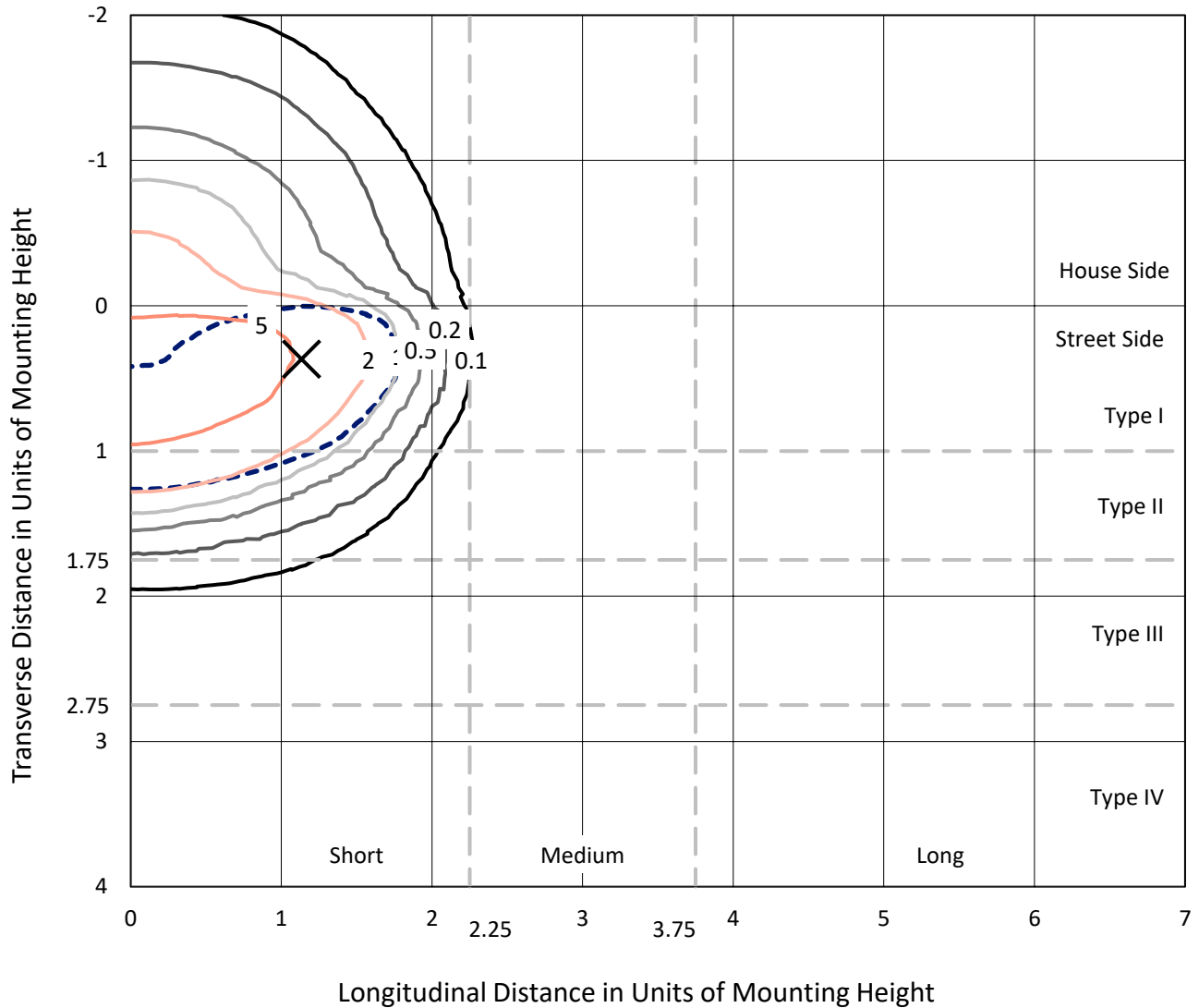
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528918
 CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

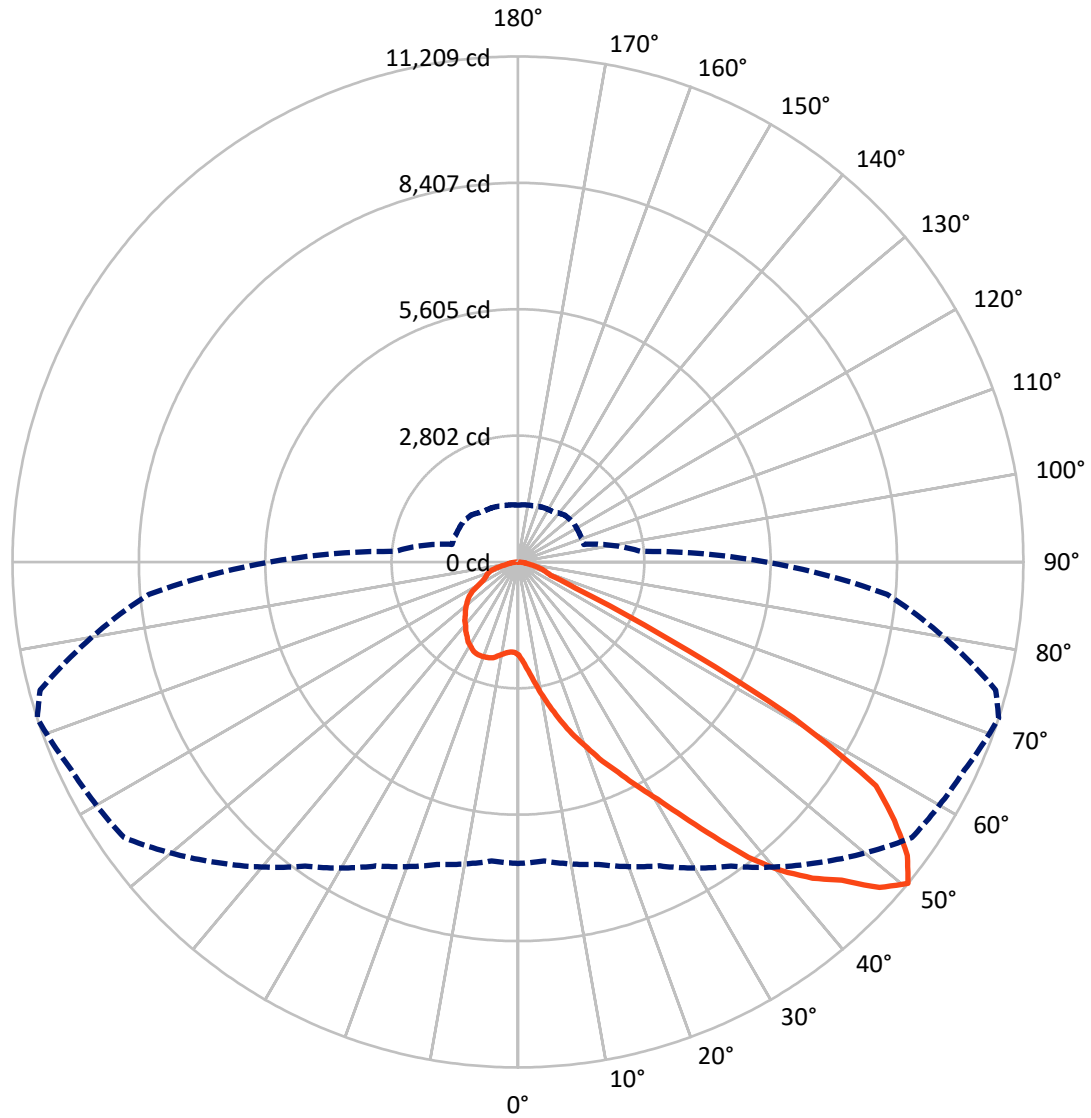
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P528918
CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528918
 CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

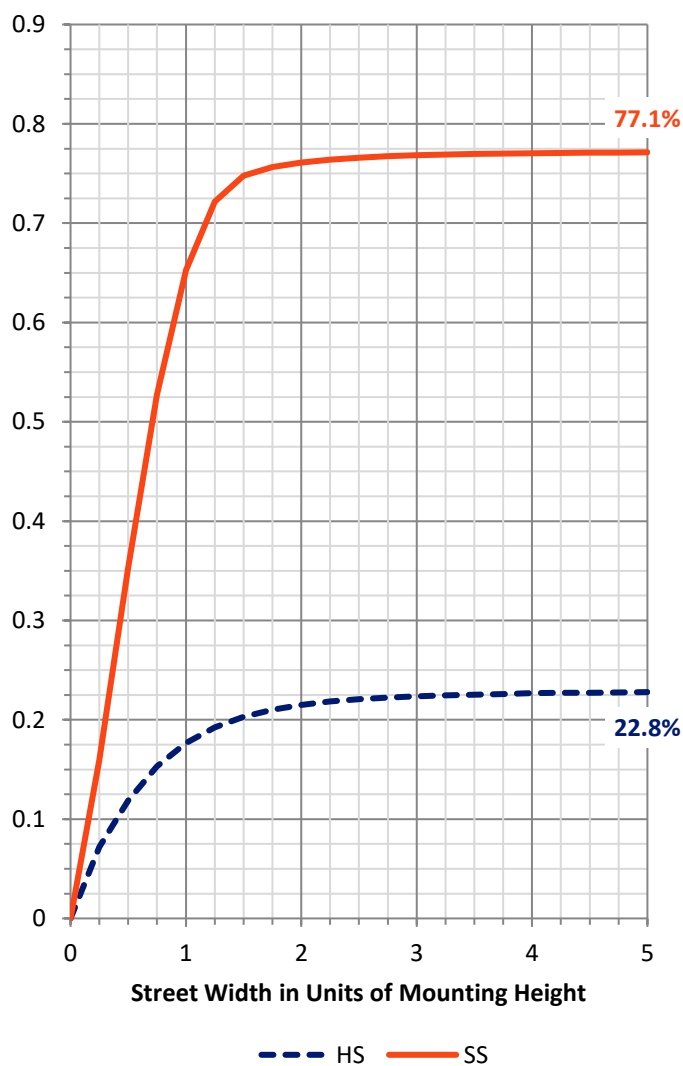
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3392.8	0.0	3392.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11416.2	0.0	11416.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	14809.0	0.0	14809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.6
10°-20°	906.5	6.1
20°-30°	1757.7	11.9
30°-40°	2911.8	19.7
40°-50°	4074.3	27.5
50°-60°	3437.2	23.2
60°-70°	1047.6	7.1
70°-80°	367.5	2.5
80°-90°	63.9	0.4
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°	14809.0	100.0
0°-180°	14809.0	100.0

Coefficient of Utilization

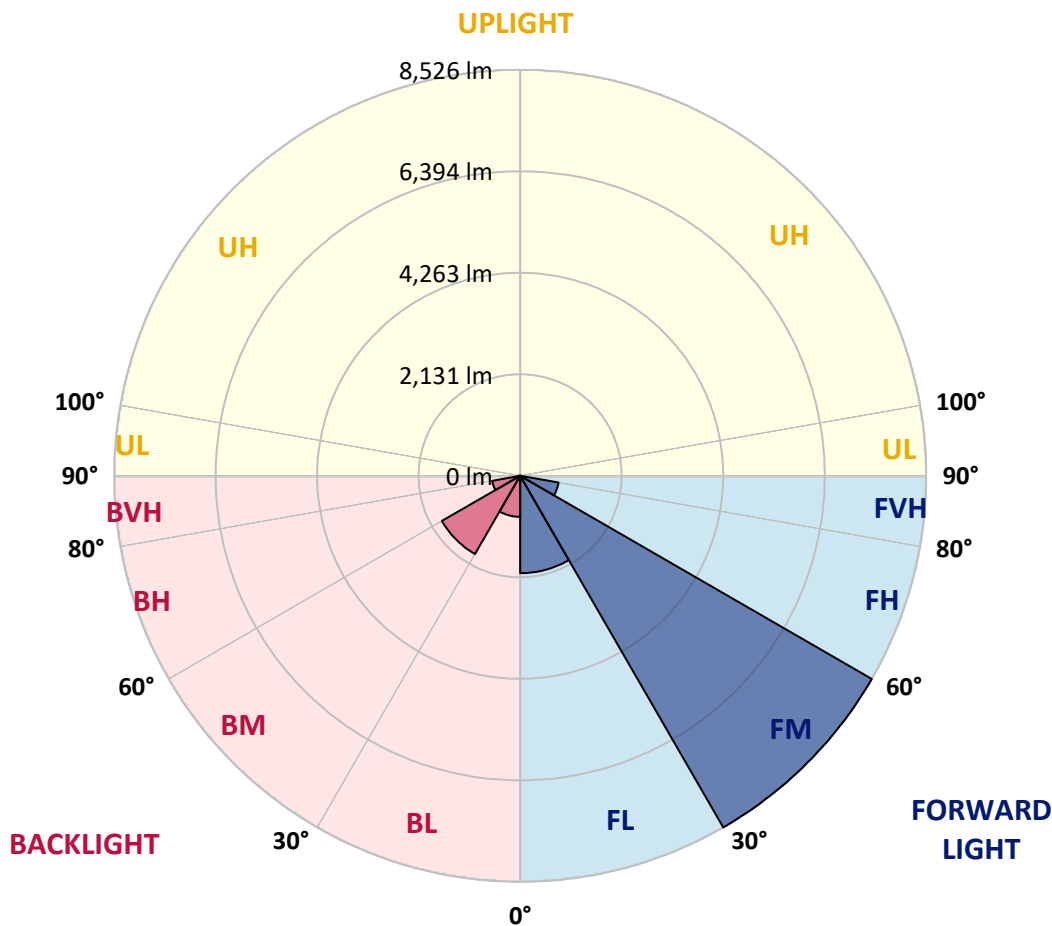


REPORT NUMBER: P528918
 CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.2	13.8			
FM (30°-60°)	8525.9	57.6			
FH (60°-80°)	817.4	5.5			G1/1800
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	862.5	5.8	B2/1000		
BM (30°-60°)	1897.3	12.8	B2/2500		
BH (60°-80°)	597.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	35.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P528918

CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2651.6	2635.1	2585.6	2569.1	2510.5	2404.2	2367.6	2259.4	2213.6	2171.5	2122.0
5°	3353.4	3276.5	3271.0	3177.5	3041.9	2963.1	2728.6	2571.0	2426.2	2352.9	2217.3
7.5°	3800.6	3802.4	3802.4	3725.4	3617.3	3417.6	3206.8	2922.8	2704.7	2596.6	2365.7
10°	4225.7	4189.0	4168.9	4161.6	4088.3	3894.0	3668.6	3316.8	3018.1	2891.7	2477.5
12.5°	4526.2	4495.1	4540.9	4517.1	4463.9	4337.5	4124.9	3723.6	3349.8	3179.4	2657.1
15°	4669.2	4691.1	4727.8	4793.8	4769.9	4722.3	4487.7	4141.4	3707.1	3514.7	2816.5
17.5°	4889.1	4828.6	4872.6	4955.0	5021.0	4999.0	4865.2	4443.8	4060.8	3824.4	3030.9
20°	5043.0	5008.2	5030.2	5125.4	5174.9	5299.5	5229.9	4839.6	4399.8	4150.6	3283.8
22.5°	5482.8	5431.5	5360.0	5374.7	5393.0	5480.9	5497.4	5273.9	4793.8	4529.9	3523.9
25°	6025.2	5977.5	5893.3	5807.1	5754.0	5737.5	5794.3	5614.7	5171.3	4898.2	3782.2
27.5°	6622.6	6542.0	6488.8	6311.1	6168.1	6146.1	6118.6	6021.5	5618.4	5323.4	4073.6
30°	7203.5	7139.3	7067.9	6783.8	6635.4	6611.6	6476.0	6503.5	6104.0	5776.0	4403.4
32.5°	7643.3	7648.8	7485.7	7271.3	7132.0	7005.6	6956.1	7034.9	6727.0	6463.2	4771.8
35°	7998.8	8015.3	7859.5	7665.3	7515.0	7603.0	7581.0	7617.6	7471.0	7148.5	5200.6
37.5°	8345.1	8262.6	8095.9	8002.4	7923.6	8068.4	8255.3	8286.5	8314.0	7934.6	5699.0
40°	8401.9	8409.2	8312.1	8378.1	8279.1	8497.2	8931.5	8891.2	9003.0	8671.3	6239.6
42.5°	8321.3	8337.8	8376.3	8469.7	8707.9	8970.0	9615.0	9450.1	9585.7	9290.7	6765.5
45°	8189.3	8121.5	8169.2	8524.7	8937.0	9519.7	10239.9	10111.6	10067.6	9820.3	7392.2
47.5°	7559.0	7628.6	7777.0	8215.0	8834.4	9615.0	10683.4	10654.0	10786.0	10611.9	7962.1
50°	6684.9	6657.4	6943.3	7436.2	8235.2	9428.1	10659.5	10925.2	11209.3	10967.4	8216.8
52.5°	5006.3	5152.9	5398.5	6010.5	7150.3	8409.2	10139.1	10582.6	10813.5	10762.2	8011.6
55°	3164.7	3208.7	3357.1	4084.6	5110.8	6749.0	8691.4	9719.5	10131.8	10324.2	7822.9
57.5°	1537.5	1455.0	1636.4	2221.0	2952.1	4539.1	6703.2	8466.1	9362.1	9710.3	7412.4
60°	802.6	833.8	905.2	1114.1	1526.5	2356.6	4178.1	5642.2	7011.1	7546.1	5618.4
62.5°	665.2	676.2	723.8	828.3	1015.2	1356.0	2133.0	2750.6	3575.2	4057.1	3195.8
65°	564.4	569.9	621.2	690.8	810.0	954.7	1097.7	1149.0	1390.9	1427.5	1136.1
67.5°	470.9	476.4	531.4	597.4	674.4	712.8	749.5	745.8	773.3	762.3	760.5
70°	362.8	368.3	425.1	494.8	533.3	511.3	624.9	650.5	661.5	670.7	685.3
72.5°	262.0	273.0	317.0	366.5	346.3	397.6	514.9	553.4	568.1	573.6	591.9
75°	190.6	194.2	205.2	190.6	219.9	276.7	362.8	410.5	428.8	434.3	461.8
77.5°	84.3	86.1	88.0	109.9	141.1	172.3	216.2	254.7	280.4	287.7	295.0
80°	44.0	45.8	56.8	75.1	100.8	126.4	157.6	179.6	196.1	197.9	205.2
82.5°	27.5	29.3	40.3	53.1	71.5	93.5	115.4	133.8	146.6	148.4	150.3
85°	12.8	16.5	23.8	33.0	47.6	60.5	62.3	53.1	56.8	58.6	55.0
87.5°	3.7	5.5	7.3	5.5	7.3	7.3	9.2	11.0	11.0	11.0	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528918

CATALOG NUMBER: GALN-SA4A-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2094.5	2078.0	2013.9	1990.1	1927.8	1938.8	1905.8	1903.9	1896.6	1894.8	1893.0
5°	2145.8	2094.5	2017.6	1958.9	1924.1	1920.4	1896.6	1896.6	1903.9	1909.4	1896.6
7.5°	2230.1	2171.5	2041.4	1986.4	1955.3	1949.8	1933.3	1920.4	1936.9	1931.4	1916.8
10°	2327.2	2224.6	2087.2	2039.5	1988.2	1975.4	1975.4	1980.9	1953.4	1962.6	1947.9
12.5°	2435.4	2297.9	2145.8	2090.9	2030.4	2023.1	2019.4	1979.1	1993.7	1986.4	1949.8
15°	2572.8	2382.2	2221.0	2127.5	2076.2	2043.2	1995.6	1988.2	1979.1	1960.8	1944.3
17.5°	2721.2	2473.8	2255.8	2138.5	2061.5	2037.7	2001.1	1962.6	1935.1	1938.8	1925.9
20°	2847.7	2558.1	2268.6	2149.5	2050.5	2004.7	1947.9	1924.1	1894.8	1893.0	1891.1
22.5°	2997.9	2671.8	2286.9	2120.2	2017.6	1969.9	1931.4	1889.3	1869.1	1843.5	1856.3
25°	3177.5	2715.7	2290.6	2103.7	1993.7	1909.4	1889.3	1843.5	1836.1	1799.5	1806.8
27.5°	3307.6	2739.6	2261.3	2052.4	1938.8	1874.6	1838.0	1805.0	1792.2	1764.7	1757.3
30°	3481.7	2776.2	2199.0	1988.2	1883.8	1812.3	1790.3	1783.0	1746.4	1717.0	1713.4
32.5°	3679.6	2800.0	2158.7	1922.3	1827.0	1772.0	1783.0	1748.2	1702.4	1676.7	1669.4
35°	3837.2	2809.2	2057.9	1847.1	1788.5	1753.7	1740.9	1733.5	1667.6	1643.7	1625.4
37.5°	4077.3	2789.0	1973.6	1794.0	1746.4	1733.5	1722.5	1673.1	1597.9	1563.1	1537.5
40°	4357.6	2783.5	1865.5	1718.9	1706.0	1720.7	1687.7	1610.7	1506.3	1467.8	1449.5
42.5°	4627.0	2822.0	1797.7	1678.6	1662.1	1667.6	1621.7	1506.3	1455.0	1433.0	1403.7
45°	5077.8	2902.6	1685.9	1616.2	1608.9	1605.3	1550.3	1429.3	1400.0	1372.5	1367.0
47.5°	5484.6	2849.5	1614.4	1552.1	1559.4	1539.3	1422.0	1383.5	1350.5	1323.0	1313.9
50°	5508.4	2723.1	1513.6	1502.6	1504.5	1469.6	1357.9	1332.2	1290.1	1271.7	1258.9
52.5°	5383.8	2516.0	1420.2	1423.8	1429.3	1372.5	1279.1	1260.7	1225.9	1200.3	1192.9
55°	5033.8	2193.5	1328.5	1343.2	1357.9	1249.8	1220.4	1174.6	1147.1	1110.5	1112.3
57.5°	4434.6	1766.5	1200.3	1224.1	1255.2	1136.1	1114.1	1057.3	1017.0	987.7	984.0
60°	2972.3	1257.1	1007.9	1017.0	1086.7	1039.0	1037.2	980.4	925.4	899.7	885.1
62.5°	1753.7	960.2	870.4	861.3	859.4	886.9	932.7	912.6	841.1	791.6	806.3
65°	918.1	830.1	810.0	778.8	760.5	753.1	788.0	797.1	749.5	696.3	692.7
67.5°	771.5	771.5	755.0	744.0	718.3	687.2	665.2	635.9	628.5	613.9	595.6
70°	701.8	720.2	714.7	689.0	667.0	632.2	575.4	527.8	481.9	465.4	476.4
72.5°	612.0	630.4	630.4	617.5	588.2	535.1	480.1	425.1	386.7	357.3	353.7
75°	470.9	480.1	502.1	487.4	449.0	416.0	359.2	302.4	265.7	238.2	232.7
77.5°	300.5	315.2	315.2	313.4	285.9	254.7	218.1	177.8	150.3	130.1	124.6
80°	199.7	208.9	216.2	208.9	190.6	166.8	139.3	111.8	91.6	75.1	71.5
82.5°	146.6	157.6	163.1	155.8	137.4	119.1	99.0	78.8	58.6	45.8	42.1
85°	56.8	58.6	66.0	78.8	77.0	75.1	60.5	44.0	33.0	23.8	22.0
87.5°	14.7	12.8	14.7	14.7	12.8	11.0	11.0	11.0	11.0	5.5	7.3
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)