

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: P528930

Luminaire Tested: **GALN-SA4A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16324 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

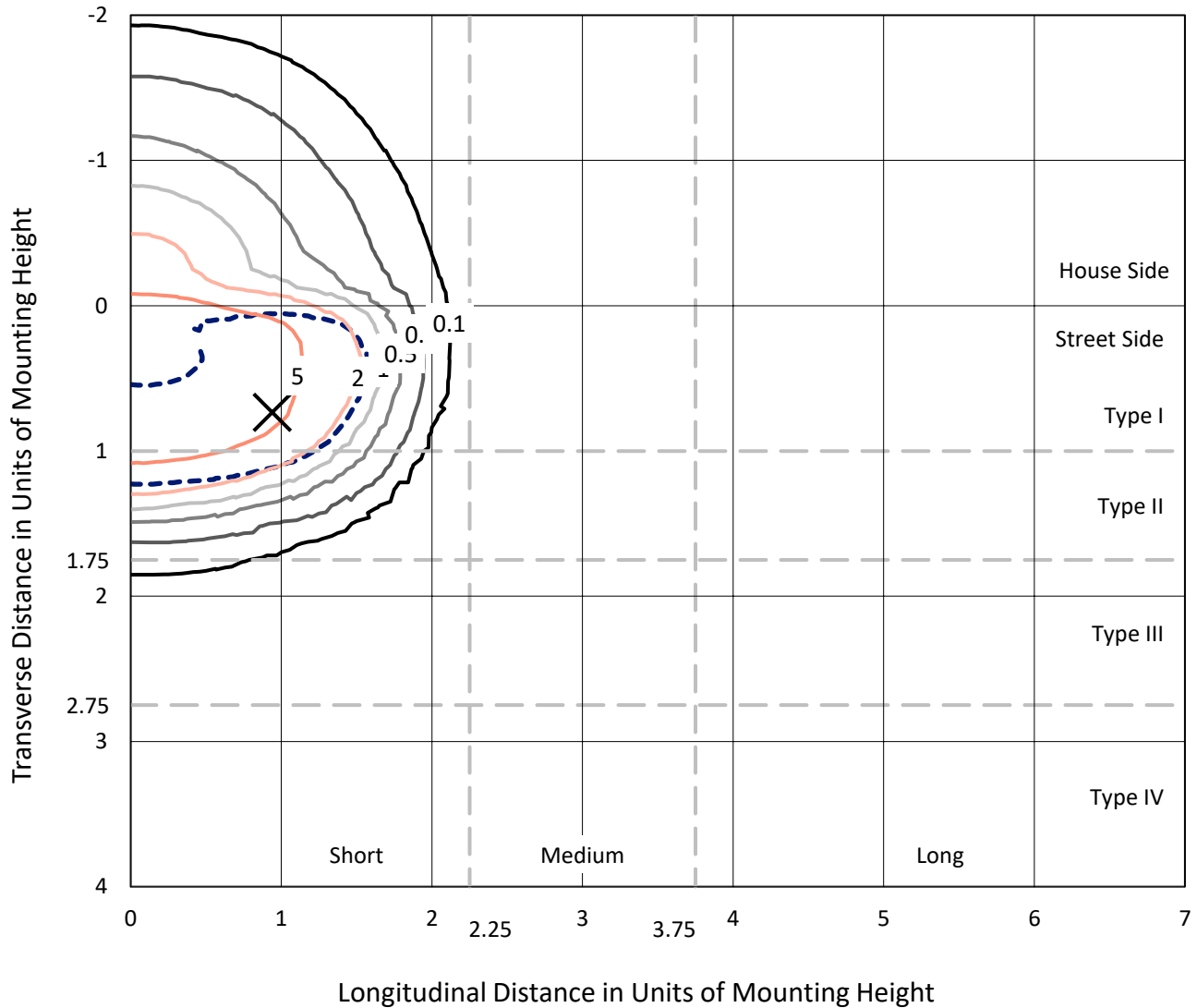
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

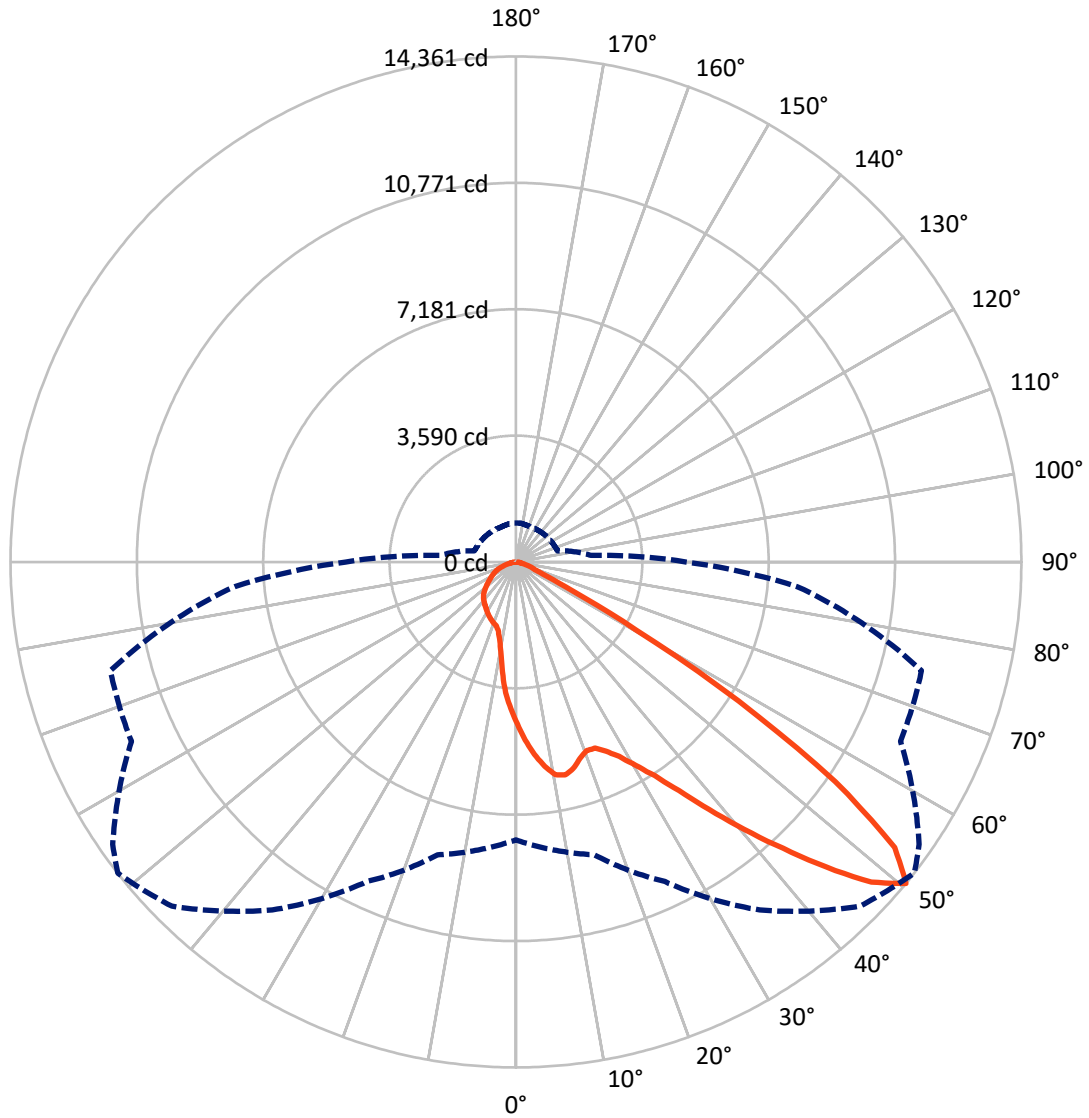
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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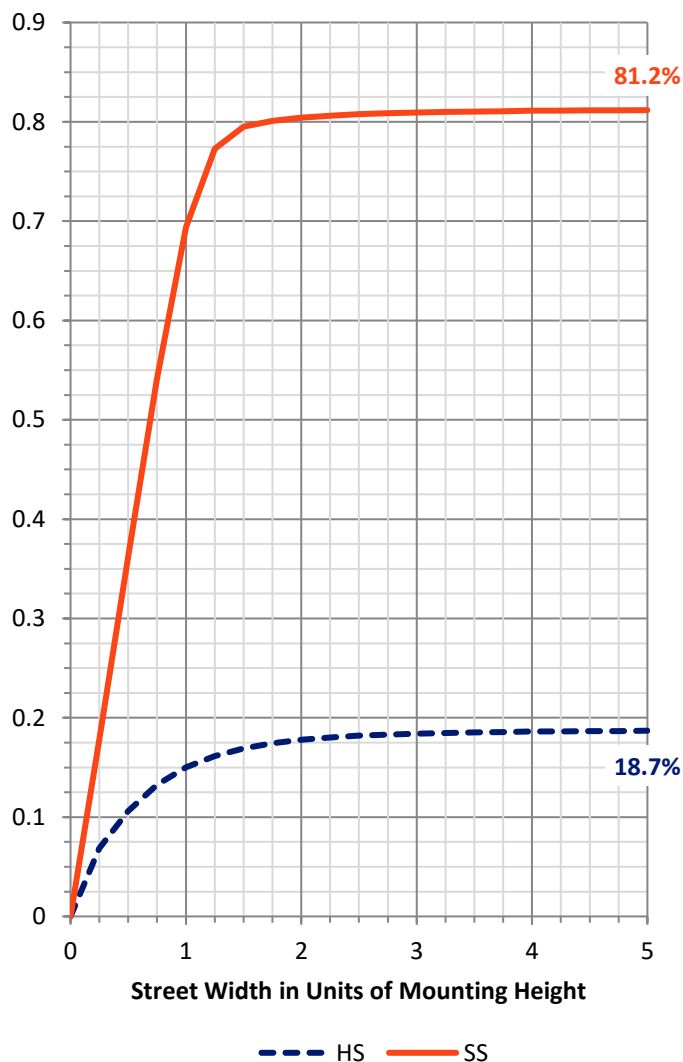
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.5	0.0	3068.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13255.5	0.0	13255.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	16324.0	0.0	16324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	2.6
10°-20°	1136.7	7.0
20°-30°	1914.8	11.7
30°-40°	3213.2	19.7
40°-50°	4915.4	30.1
50°-60°	3583.7	22.0
60°-70°	797.6	4.9
70°-80°	287.7	1.8
80°-90°	50.9	0.3
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°	16324.0	100.0
0°-180°	16324.0	100.0

Coefficient of Utilization

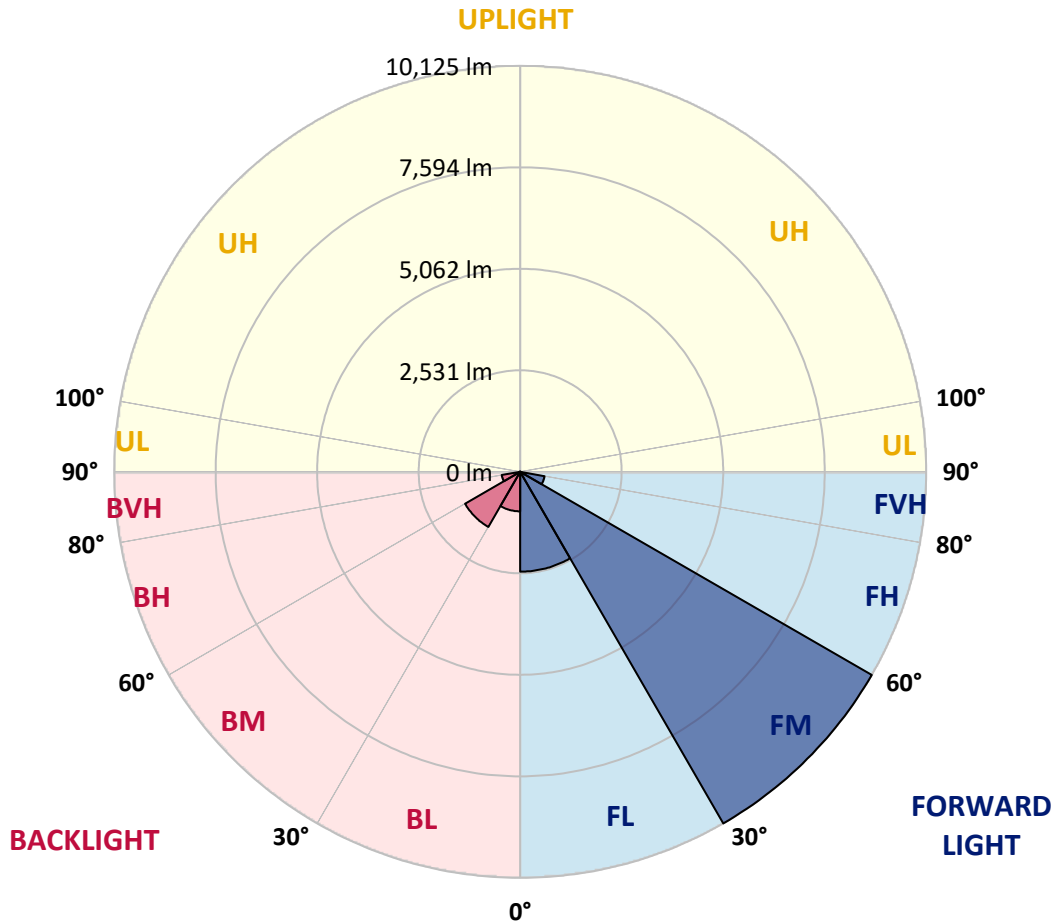


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.0	15.3			
FM (30°-60°)	10125.0	62.0			
FH (60°-80°)	617.7	3.8			G0/660
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	985.7	6.0	B2/1000		
BM (30°-60°)	1587.3	9.7	B2/2500		
BH (60°-80°)	467.5	2.9	B1/500		G1/500
BVH (80°-90°)	28.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5
2.5°	5417.9	5313.6	5325.4	5250.7	5170.0	5146.4	5063.8	4985.1	4926.1	4800.2	4684.1
5°	5921.5	5890.0	5842.8	5783.8	5722.8	5573.3	5488.7	5390.3	5173.9	4979.2	4786.4
7.5°	5994.3	5988.4	6014.0	6014.0	6035.6	5978.6	5858.6	5789.7	5559.5	5242.8	4884.8
10°	5482.8	5500.5	5624.4	5785.8	6010.0	6165.5	6145.8	6128.1	5876.3	5443.5	5000.8
12.5°	5075.6	5036.2	5109.0	5246.7	5583.1	5958.9	6212.7	6214.6	6149.7	5764.1	5085.4
15°	4845.4	4872.9	4892.6	4957.5	5211.3	5646.1	6092.7	6224.5	6509.7	5990.4	5219.2
17.5°	4993.0	4900.5	4896.6	4912.3	5042.1	5368.7	5870.4	6096.6	6706.5	6281.5	5384.4
20°	5185.7	5183.8	5128.7	5109.0	5107.1	5398.2	5724.8	6031.7	6810.7	6659.2	5551.7
22.5°	5524.1	5524.1	5433.6	5390.3	5297.9	5535.9	5744.5	5953.0	6983.8	6918.9	5632.3
25°	6090.7	5998.2	5842.8	5736.6	5683.5	5768.1	5953.0	6139.9	7135.3	7194.3	5799.5
27.5°	6614.0	6468.4	6391.7	6208.7	6137.9	6088.7	6257.9	6446.8	7312.4	7623.2	5890.0
30°	7208.1	7182.5	7044.8	6808.8	6633.7	6543.2	6698.6	6885.5	7637.0	8061.9	6098.6
32.5°	8270.4	8038.3	7851.4	7562.2	7277.0	7084.2	7237.6	7361.6	8176.0	8520.3	6326.8
35°	9417.4	9342.6	9020.0	8498.6	8061.9	7888.8	7979.3	8071.7	8803.6	9220.6	6710.4
37.5°	10544.6	10442.3	10176.7	9738.0	9206.9	8854.7	8919.6	9027.8	9507.9	10164.9	7178.6
40°	11355.1	11229.2	11095.5	11030.5	10503.3	10021.3	9983.9	10011.5	10460.0	11050.2	7698.0
42.5°	11414.2	11569.6	11610.9	11872.5	11748.6	11353.2	11123.0	11128.9	11368.9	11925.6	8223.2
45°	11290.2	11146.6	11451.5	12165.7	12574.8	12759.8	12372.2	12323.0	11931.5	12433.2	8484.9
47.5°	9989.8	10029.2	10544.6	11673.8	12856.2	13682.4	13591.9	13428.6	12232.5	12415.5	8443.6
50°	7896.7	8134.7	8612.7	10019.4	12069.3	13828.0	14361.1	13983.4	12053.5	11927.6	8022.6
52.5°	5258.5	5356.9	5671.7	7487.5	9704.6	12360.4	13475.9	13562.4	11888.3	11288.2	7489.4
55°	2341.1	2333.2	2775.8	3911.0	6088.7	9405.6	11010.9	11538.1	11252.8	10637.1	6970.1
57.5°	991.5	1025.0	1205.9	1689.9	2994.2	5675.6	7459.9	7922.2	8654.1	8734.7	5347.1
60°	670.8	674.8	724.0	845.9	1253.2	2665.7	3912.9	4467.7	4991.0	4955.6	2836.8
62.5°	527.2	541.0	578.4	627.6	743.6	1209.9	1750.9	2059.7	2093.2	1760.7	1076.1
65°	450.5	452.5	489.9	531.2	582.3	704.3	844.0	859.7	869.5	838.1	790.8
67.5°	371.8	375.8	405.3	452.5	499.7	539.0	578.4	598.1	643.3	731.8	720.0
70°	295.1	301.0	326.6	365.9	409.2	432.8	482.0	499.7	541.0	609.9	637.4
72.5°	224.3	226.2	247.9	275.4	314.8	338.4	379.7	399.4	426.9	485.9	511.5
75°	161.3	167.2	183.0	196.7	202.6	218.4	257.7	279.4	318.7	344.3	346.2
77.5°	84.6	88.5	92.5	92.5	112.1	141.6	167.2	179.0	206.6	226.2	216.4
80°	33.4	35.4	45.2	61.0	78.7	102.3	120.0	125.9	149.5	161.3	167.2
82.5°	19.7	21.6	29.5	43.3	57.1	72.8	86.6	92.5	108.2	122.0	125.9
85°	9.8	11.8	17.7	27.5	37.4	45.2	43.3	41.3	41.3	39.3	41.3
87.5°	3.9	3.9	5.9	5.9	5.9	7.9	9.8	9.8	9.8	11.8	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°	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5	4601.5
2.5°	4607.4	4528.7	4455.9	4322.1	4176.5	4135.2	3966.0	3905.0	3861.8	3810.6	3794.9
5°	4631.0	4526.7	4292.6	4023.1	3808.7	3533.2	3352.2	3157.5	3015.8	2980.4	2970.6
7.5°	4680.2	4501.1	4097.8	3690.6	3251.9	2878.1	2592.9	2439.4	2303.7	2295.8	2282.0
10°	4735.2	4424.4	3885.4	3246.0	2685.3	2339.1	2167.9	2101.1	2067.6	2059.7	2055.8
12.5°	4780.5	4408.7	3647.3	2813.2	2284.0	2075.5	2024.3	2018.4	2032.2	2036.1	2044.0
15°	4800.2	4345.7	3360.1	2425.7	2034.2	1957.4	1979.1	2002.7	2012.5	2038.1	2018.4
17.5°	4837.5	4265.1	3006.0	2118.8	1894.5	1908.3	1945.6	1973.2	1988.9	2006.6	1981.0
20°	4857.2	4192.3	2673.5	1935.8	1845.3	1870.9	1922.0	1943.7	1963.3	1971.2	1941.7
22.5°	4839.5	4042.8	2380.4	1788.3	1798.1	1831.5	1876.8	1900.4	1888.6	1857.1	1839.4
25°	4792.3	3832.3	2075.5	1693.8	1731.2	1790.2	1825.6	1807.9	1786.3	1768.6	1762.7
27.5°	4790.3	3574.5	1855.1	1607.3	1674.2	1754.8	1743.0	1727.3	1737.1	1723.3	1707.6
30°	4800.2	3324.7	1674.2	1558.1	1632.8	1672.2	1686.0	1670.2	1682.0	1656.4	1664.3
32.5°	4749.0	3080.8	1556.1	1501.0	1583.7	1581.7	1626.9	1638.7	1611.2	1558.1	1566.0
35°	4770.7	2884.0	1455.8	1475.5	1528.6	1528.6	1564.0	1550.2	1477.4	1445.9	1453.8
37.5°	4920.2	2691.2	1406.6	1440.0	1475.5	1491.2	1479.4	1420.4	1402.7	1402.7	1406.6
40°	5061.8	2526.0	1377.1	1432.2	1426.3	1436.1	1349.6	1355.5	1355.5	1357.4	1347.6
42.5°	5187.7	2413.9	1353.5	1385.0	1394.8	1343.7	1290.5	1284.6	1298.4	1296.4	1288.6
45°	5233.0	2321.4	1320.0	1331.8	1339.7	1255.1	1229.5	1217.7	1233.5	1239.4	1247.3
47.5°	5059.8	2244.7	1282.7	1259.1	1243.3	1188.2	1154.8	1133.2	1152.8	1186.3	1194.1
50°	4837.5	2144.3	1223.6	1178.4	1145.0	1121.3	1097.7	1076.1	1089.9	1113.5	1107.6
52.5°	4509.0	1987.0	1148.9	1101.7	1044.6	1050.5	1028.9	1017.1	1025.0	1025.0	1019.1
55°	4040.8	1632.8	1023.0	989.5	942.3	958.1	962.0	946.3	930.5	944.3	932.5
57.5°	2758.1	1152.8	912.8	912.8	865.6	887.2	885.3	847.9	810.5	814.5	806.6
60°	1595.5	918.7	842.0	834.1	784.9	802.6	806.6	781.0	724.0	727.9	720.0
62.5°	906.9	784.9	735.8	724.0	714.1	729.9	729.9	696.4	647.2	651.2	643.3
65°	771.2	727.9	657.1	655.1	651.2	655.1	639.4	604.0	560.7	543.0	544.9
67.5°	700.4	672.8	604.0	586.2	574.4	572.5	543.0	509.5	489.9	474.1	472.1
70°	613.8	592.2	541.0	517.4	505.6	478.0	448.5	426.9	399.4	391.5	399.4
72.5°	485.9	484.0	464.3	438.7	413.1	391.5	365.9	336.4	310.8	304.9	291.2
75°	336.4	340.3	344.3	340.3	318.7	291.2	261.6	238.0	206.6	188.9	184.9
77.5°	220.3	226.2	232.1	224.3	210.5	184.9	165.3	135.7	112.1	98.4	96.4
80°	161.3	169.2	173.1	167.2	151.5	131.8	110.2	86.6	68.9	57.1	57.1
82.5°	123.9	131.8	135.7	125.9	110.2	94.4	78.7	61.0	47.2	37.4	35.4
85°	43.3	41.3	49.2	51.1	61.0	57.1	47.2	35.4	27.5	19.7	17.7
87.5°	11.8	11.8	13.8	13.8	11.8	9.8	9.8	9.8	7.9	5.9	5.9
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)