

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: P647318

Luminaire Tested: **GALN-SA3D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647318
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-SA3D-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 16316.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

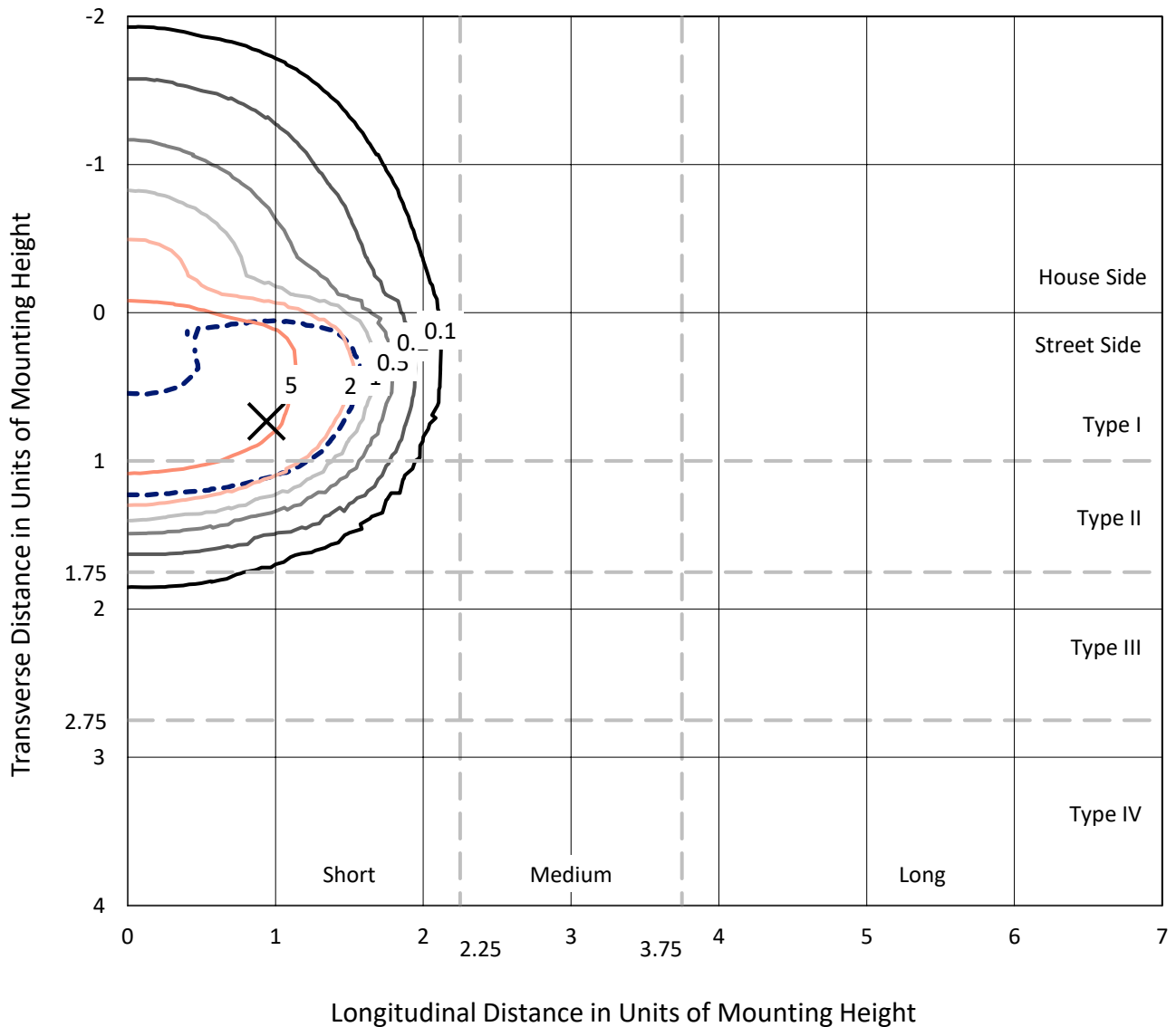
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

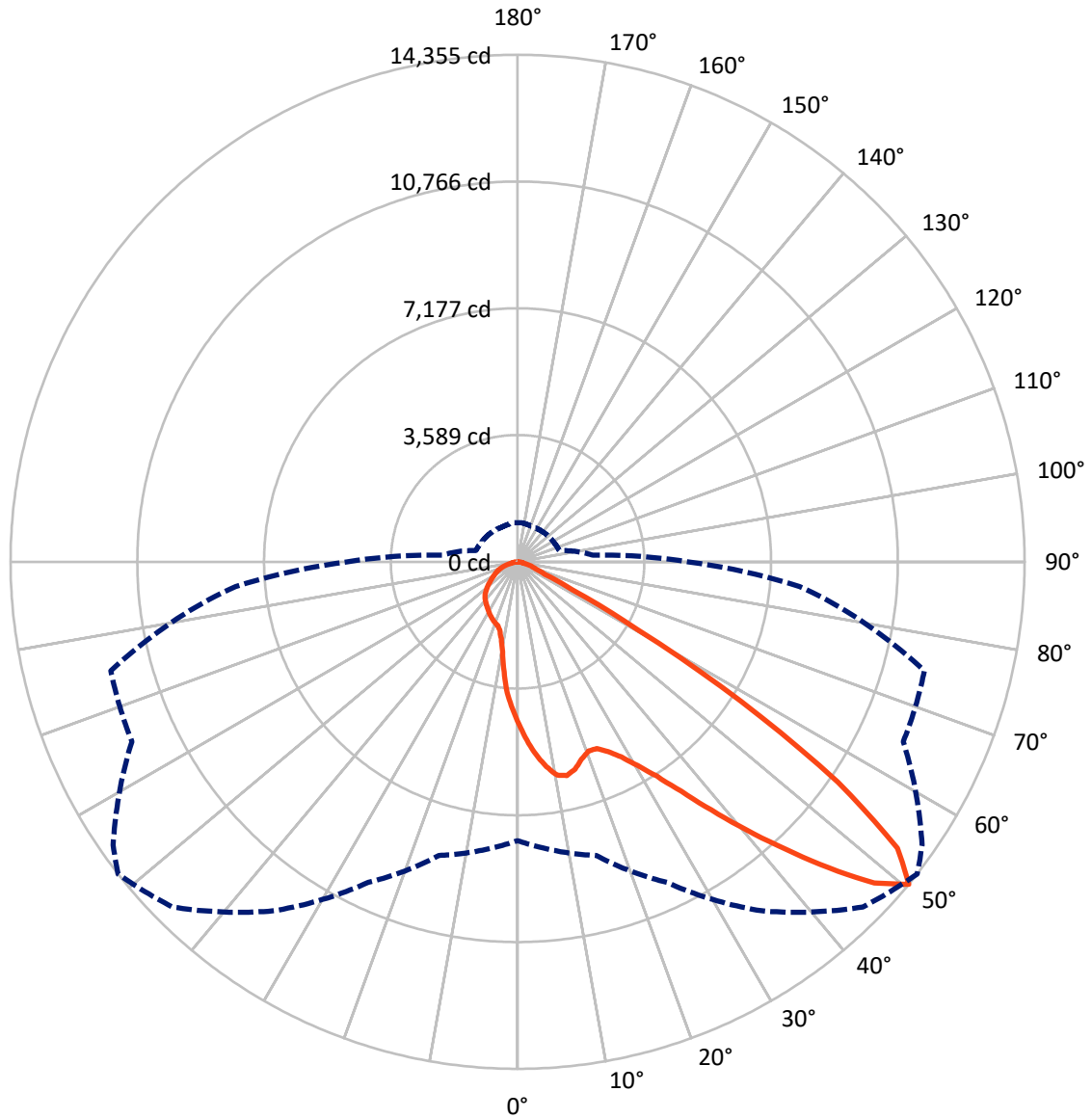
× Max cd
 - - - 1/2 Max cd



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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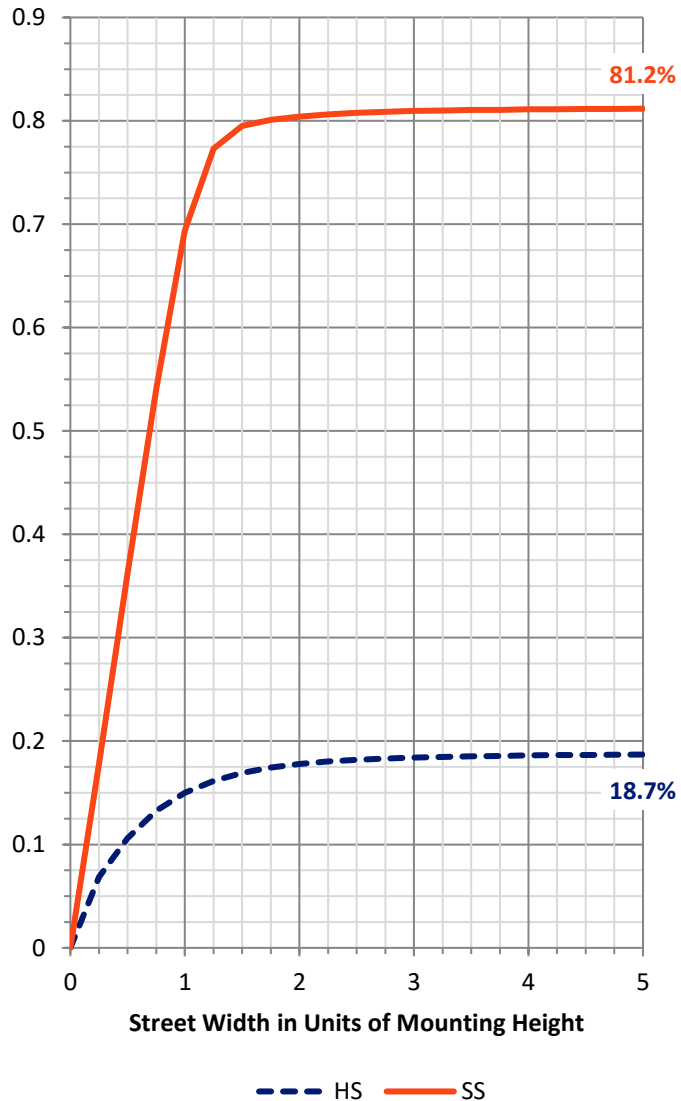
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3067.2	0.0	3067.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13249.7	0.0	13249.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	16316.9	0.0	16316.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	2.6
10°-20°	1136.2	7.0
20°-30°	1914.0	11.7
30°-40°	3211.8	19.7
40°-50°	4913.2	30.1
50°-60°	3582.1	22.0
60°-70°	797.2	4.9
70°-80°	287.5	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°	16316.9	100.0
0°-180°	16316.9	100.0

Coefficient of Utilization



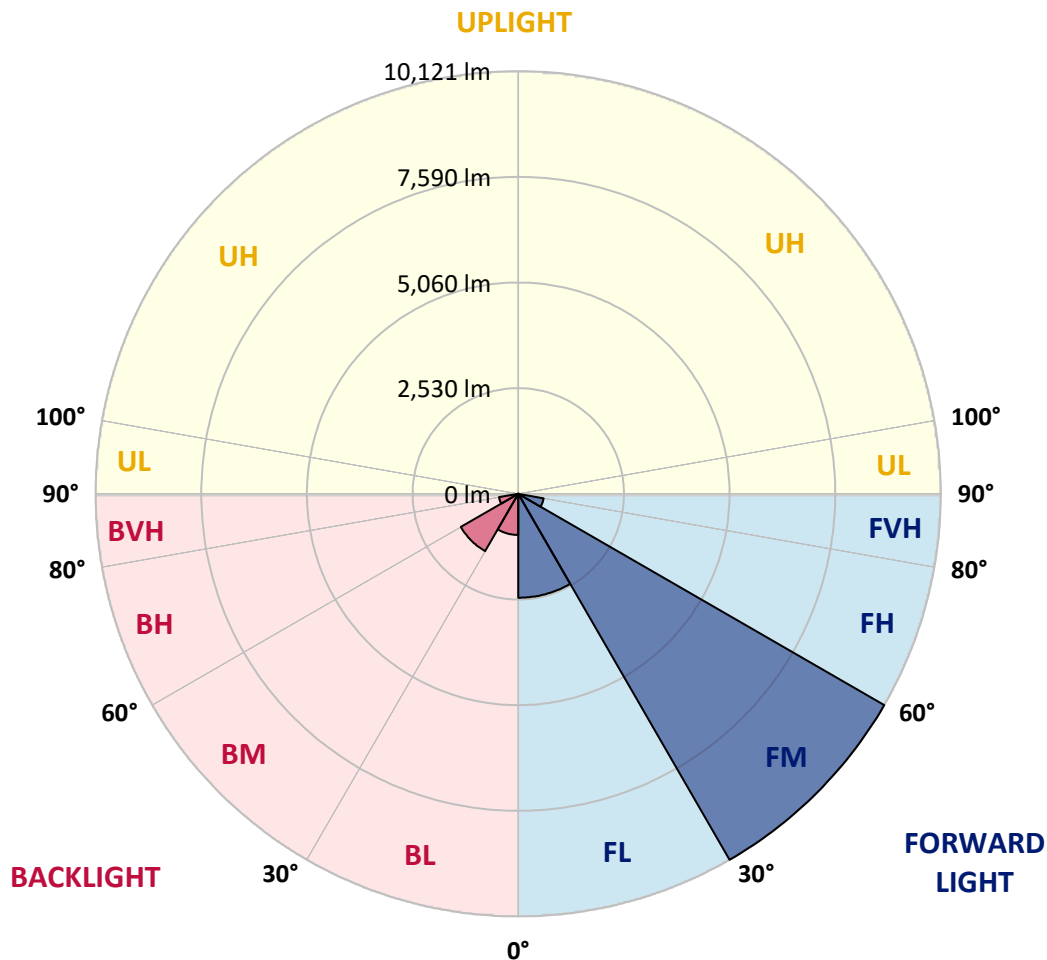
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2488.9	15.3			
FM (30°-60°)	10120.6	62.0			
FH (60°-80°)	617.4	3.8			G0/660
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	985.2	6.0	B2/1000		
BM (30°-60°)	1586.6	9.7	B2/2500		
BH (60°-80°)	467.3	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°	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5
2.5°	5415.5	5311.3	5323.1	5248.4	5167.8	5144.2	5061.5	4982.9	4923.9	4798.1	4682.0
5°	5918.9	5887.5	5840.3	5781.3	5720.4	5570.9	5486.3	5388.0	5171.7	4977.1	4784.3
7.5°	5991.7	5985.8	6011.4	6011.4	6033.0	5975.9	5856.1	5787.2	5557.1	5240.5	4882.6
10°	5480.5	5498.1	5622.0	5783.2	6007.4	6162.8	6143.1	6125.4	5873.8	5441.1	4998.7
12.5°	5073.4	5034.1	5106.8	5244.5	5580.8	5956.3	6210.0	6211.9	6147.0	5761.6	5083.2
15°	4843.3	4870.8	4890.5	4955.4	5209.1	5643.6	6090.0	6221.8	6506.9	5987.8	5216.9
17.5°	4990.8	4898.4	4894.5	4910.2	5039.9	5366.4	5867.8	6093.9	6703.6	6278.8	5382.1
20°	5183.5	5181.5	5126.5	5106.8	5104.8	5395.9	5722.3	6029.1	6807.8	6656.4	5549.3
22.5°	5521.7	5521.7	5431.3	5388.0	5295.6	5533.5	5742.0	5950.4	6980.8	6915.9	5629.8
25°	6088.1	5995.7	5840.3	5734.1	5681.0	5765.5	5950.4	6137.2	7132.3	7191.2	5797.0
27.5°	6611.1	6465.6	6388.9	6206.1	6135.3	6086.1	6255.2	6444.0	7309.2	7619.9	5887.5
30°	7205.0	7179.4	7041.8	6805.8	6630.8	6540.3	6695.7	6882.5	7633.7	8058.4	6095.9
32.5°	8266.8	8034.8	7848.0	7558.9	7273.8	7081.1	7234.5	7358.4	8172.5	8516.6	6324.1
35°	9413.3	9338.5	9016.1	8495.0	8058.4	7885.4	7975.8	8068.3	8799.7	9216.6	6707.5
37.5°	10540.0	10437.8	10172.3	9733.8	9202.9	8850.9	8915.8	9023.9	9503.7	10160.5	7175.5
40°	11350.2	11224.4	11090.6	11025.7	10498.8	10017.0	9979.6	10007.1	10455.5	11045.4	7694.6
42.5°	11409.2	11564.6	11605.9	11867.4	11743.5	11348.3	11118.2	11124.1	11364.0	11920.5	8219.7
45°	11285.3	11141.8	11446.6	12160.4	12569.4	12754.3	12366.9	12317.7	11926.4	12427.9	8481.2
47.5°	9985.5	10024.8	10540.0	11668.8	12850.6	13676.5	13586.1	13422.8	12227.2	12410.2	8439.9
50°	7893.3	8131.1	8609.0	10015.0	12064.0	13822.0	14354.9	13977.3	12048.3	11922.4	8019.1
52.5°	5256.3	5354.5	5669.2	7484.2	9700.4	12355.0	13470.0	13556.5	11883.1	11283.3	7486.2
55°	2340.1	2332.2	2774.6	3909.3	6086.1	9401.5	11006.1	11533.1	11248.0	10632.4	6967.1
57.5°	991.0	1024.5	1205.4	1689.2	2992.9	5673.1	7456.7	7918.8	8650.3	8730.9	5344.8
60°	670.6	674.5	723.6	845.6	1252.6	2664.5	3911.2	4465.8	4988.8	4953.4	2835.6
62.5°	527.0	540.7	578.2	627.3	743.3	1209.3	1750.1	2058.8	2092.3	1759.9	1075.6
65°	450.3	452.3	489.6	531.0	582.1	704.0	843.6	859.3	869.1	837.7	790.5
67.5°	371.7	375.6	405.0	452.3	499.5	538.8	578.2	597.8	643.0	731.5	719.7
70°	295.0	300.8	326.4	365.7	409.0	432.6	481.8	499.5	540.7	609.6	637.1
72.5°	224.2	226.1	247.7	275.3	314.6	338.3	379.5	399.2	426.7	485.7	511.3
75°	161.2	167.2	182.9	196.6	202.6	218.3	257.6	279.2	318.5	344.1	346.1
77.5°	84.6	88.5	92.4	92.4	112.0	141.6	167.2	178.9	206.5	226.1	216.3
80°	33.4	35.4	45.3	61.0	78.7	102.3	120.0	125.8	149.5	161.2	167.2
82.5°	19.7	21.6	29.5	43.3	57.0	72.7	86.5	92.4	108.1	121.9	125.8
85°	9.9	11.8	17.7	27.6	37.3	45.3	43.3	41.3	41.3	39.3	41.3
87.5°	3.9	3.9	5.9	5.9	5.9	7.8	9.9	9.9	9.9	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°	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5	4599.5
2.5°	4605.4	4526.7	4453.9	4320.2	4174.7	4133.5	3964.3	3903.3	3860.1	3809.0	3793.2
5°	4628.9	4524.7	4290.8	4021.3	3807.0	3531.7	3350.8	3156.1	3014.6	2979.2	2969.3
7.5°	4678.1	4499.2	4096.0	3689.0	3250.5	2876.9	2591.7	2438.3	2302.7	2294.8	2281.0
10°	4733.2	4422.5	3883.7	3244.6	2684.2	2338.1	2167.0	2100.2	2066.7	2058.8	2054.9
12.5°	4778.4	4406.8	3645.7	2812.0	2283.0	2074.6	2023.4	2017.6	2031.3	2035.3	2043.1
15°	4798.1	4343.8	3358.7	2424.6	2033.3	1956.6	1978.2	2001.8	2011.7	2037.2	2017.6
17.5°	4835.4	4263.2	3004.7	2117.9	1893.7	1907.5	1944.8	1972.3	1988.0	2005.7	1980.2
20°	4855.1	4190.5	2672.4	1934.9	1844.5	1870.0	1921.2	1942.9	1962.5	1970.3	1940.9
22.5°	4837.4	4041.0	2379.4	1787.5	1797.3	1830.7	1876.0	1899.6	1887.7	1856.3	1838.6
25°	4790.2	3830.6	2074.6	1693.1	1730.4	1789.5	1824.9	1807.2	1785.6	1767.9	1761.9
27.5°	4788.3	3573.0	1854.4	1606.6	1673.4	1754.1	1742.3	1726.5	1736.4	1722.6	1706.9
30°	4798.1	3323.3	1673.4	1557.4	1632.2	1671.5	1685.3	1669.5	1681.3	1655.7	1663.6
32.5°	4746.9	3079.5	1555.4	1500.4	1583.0	1581.0	1626.2	1638.0	1610.5	1557.4	1565.3
35°	4768.5	2882.8	1455.1	1474.9	1527.9	1527.9	1563.3	1549.6	1476.8	1445.3	1453.2
37.5°	4918.0	2690.1	1406.0	1439.4	1474.9	1490.5	1478.8	1419.7	1402.0	1402.0	1406.0
40°	5059.6	2524.9	1376.5	1431.6	1425.7	1435.5	1349.0	1354.9	1354.9	1356.9	1347.0
42.5°	5185.5	2412.8	1352.9	1384.3	1394.2	1343.1	1290.0	1284.0	1297.8	1295.9	1288.0
45°	5230.7	2320.4	1319.5	1331.3	1339.2	1254.6	1229.0	1217.3	1232.9	1238.9	1246.7
47.5°	5057.6	2243.7	1282.1	1258.5	1242.8	1187.7	1154.3	1132.7	1152.3	1185.8	1193.6
50°	4835.4	2143.4	1223.1	1177.9	1144.4	1120.9	1097.3	1075.6	1089.4	1113.0	1107.1
52.5°	4507.0	1986.1	1148.4	1101.2	1044.2	1050.1	1028.5	1016.6	1024.5	1024.5	1018.6
55°	4039.0	1632.2	1022.5	989.1	941.9	957.7	961.6	945.9	930.1	943.9	932.1
57.5°	2756.9	1152.3	912.4	912.4	865.2	886.8	884.9	847.5	810.2	814.1	806.3
60°	1594.7	918.3	841.6	833.7	784.6	802.3	806.3	780.7	723.6	727.6	719.7
62.5°	906.6	784.6	735.5	723.6	713.8	729.5	729.5	696.1	647.0	650.9	643.0
65°	770.9	727.6	656.8	654.8	650.9	654.8	639.1	603.7	560.4	542.7	544.7
67.5°	700.1	672.5	603.7	586.0	574.2	572.2	542.7	509.3	489.6	473.9	471.9
70°	613.6	591.9	540.7	517.2	505.3	477.9	448.3	426.7	399.2	391.3	399.2
72.5°	485.7	483.7	464.1	438.5	413.0	391.3	365.7	336.2	310.7	304.8	291.0
75°	336.2	340.2	344.1	340.2	318.5	291.0	261.5	238.0	206.5	188.8	184.9
77.5°	220.3	226.1	232.0	224.2	210.4	184.9	165.2	135.7	112.0	98.3	96.4
80°	161.2	169.1	173.0	167.2	151.4	131.8	110.1	86.5	68.8	57.0	57.0
82.5°	123.9	131.8	135.7	125.8	110.1	94.4	78.7	61.0	47.2	37.3	35.4
85°	43.3	41.3	49.2	51.1	61.0	57.0	47.2	35.4	27.6	19.7	17.7
87.5°	11.8	11.8	13.8	13.8	11.8	9.9	9.9	9.9	7.8	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)