

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: P528644

Luminaire Tested: **GALN-SA3D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528644  
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-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 18977 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

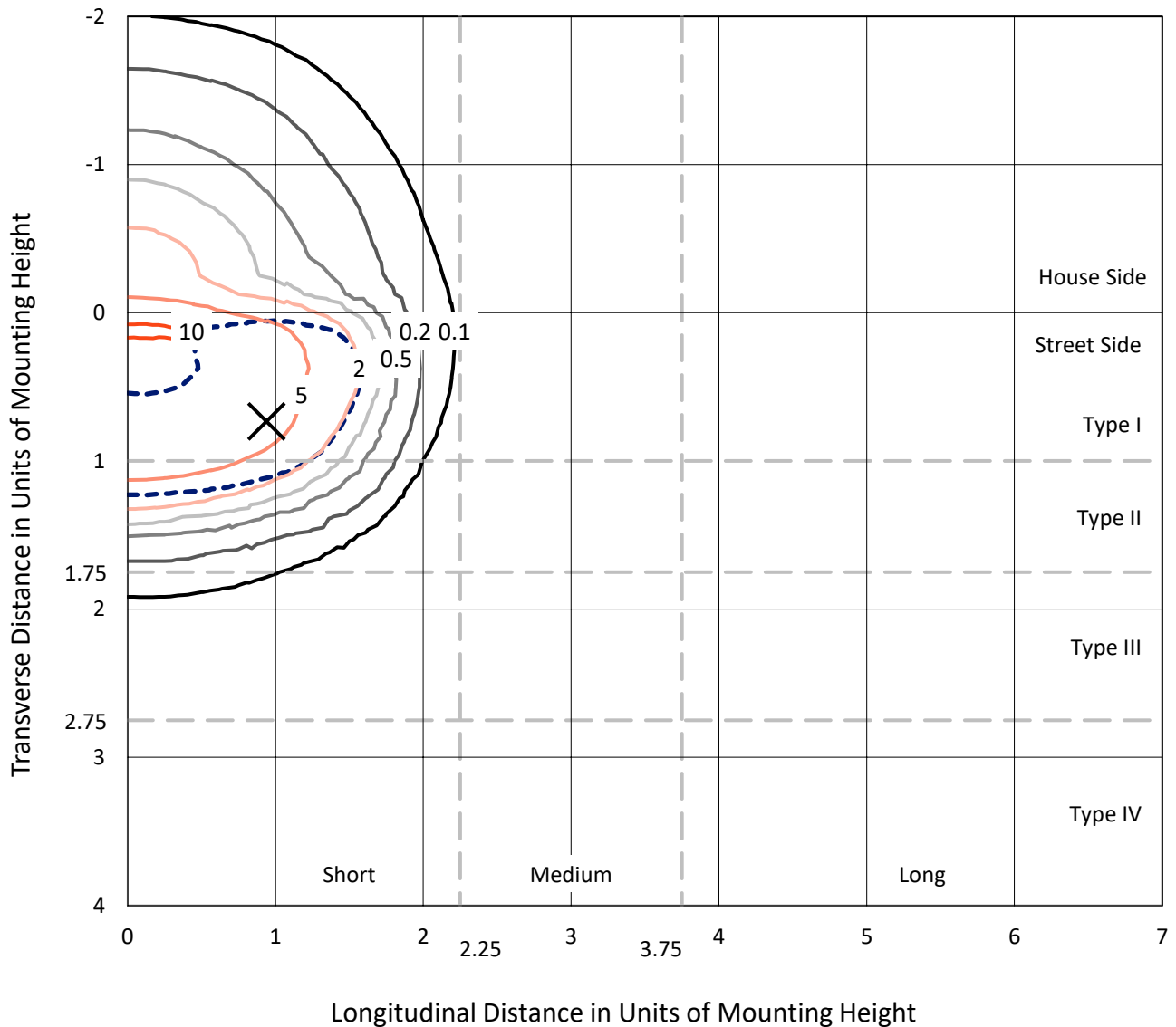
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

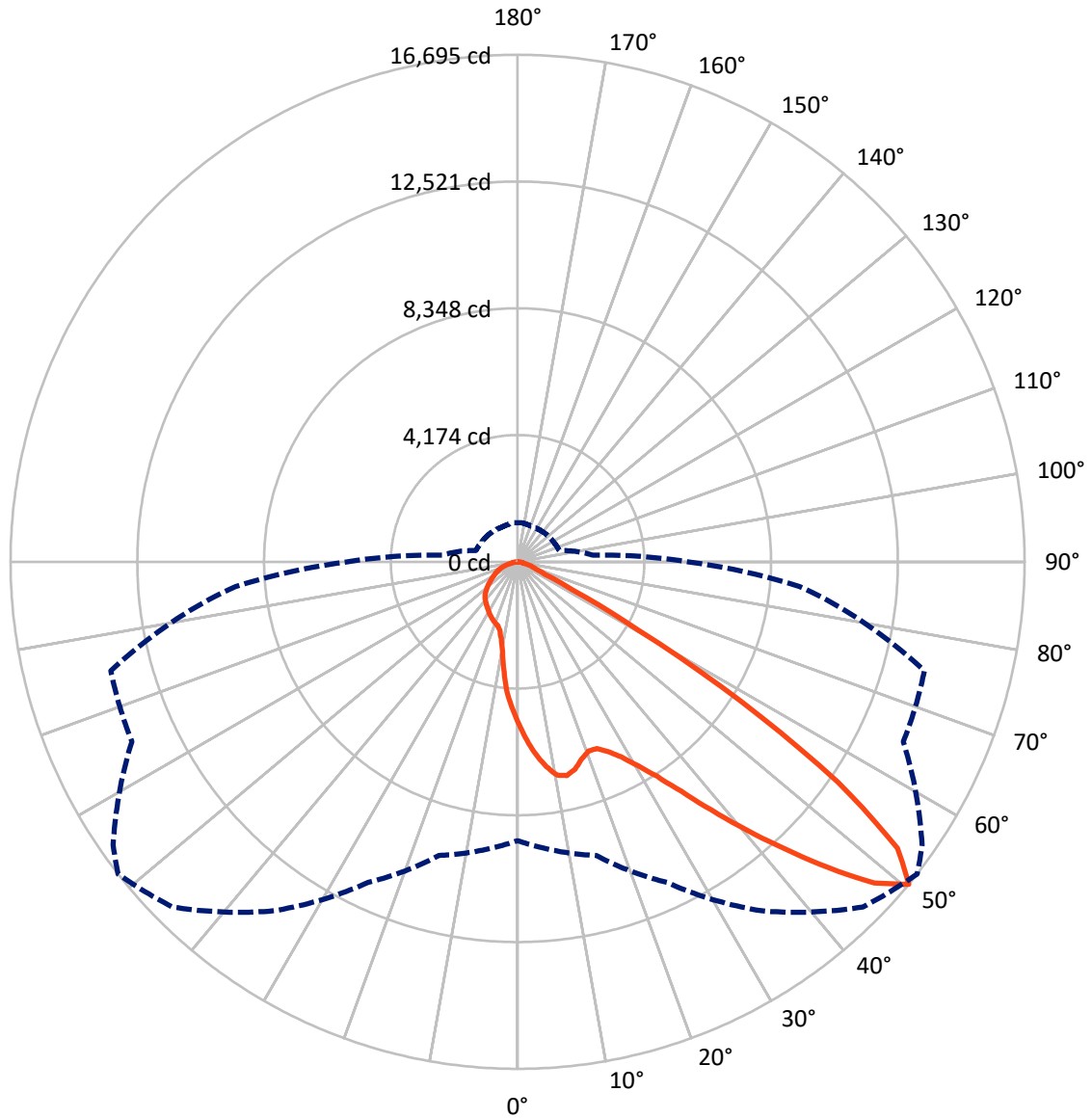
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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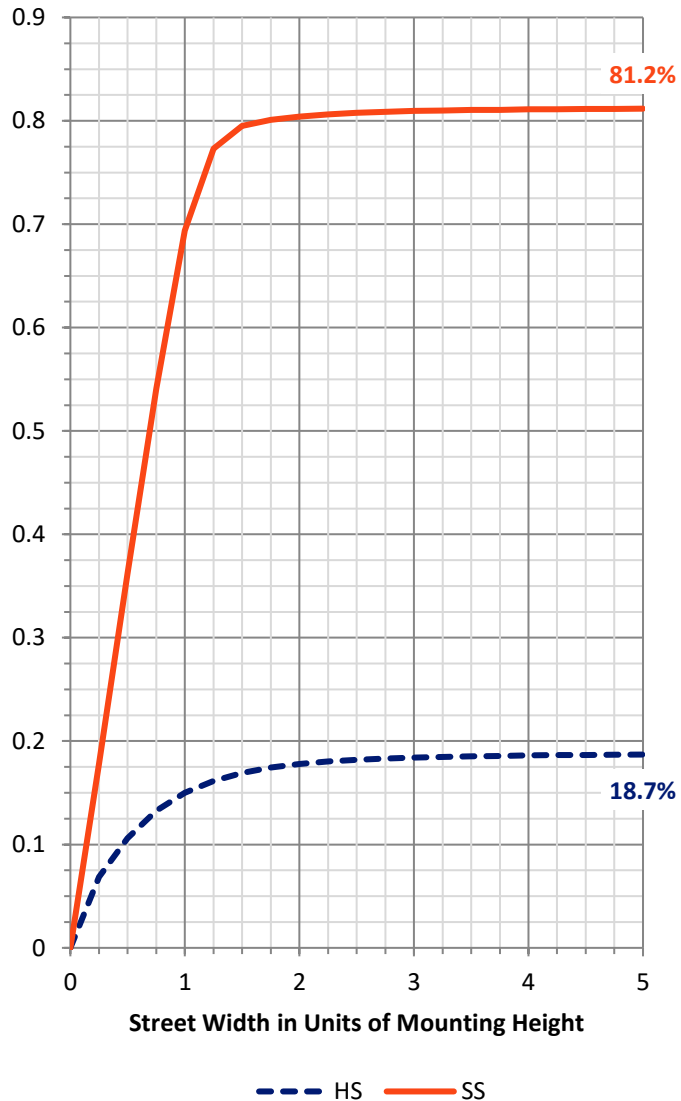
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3567.2	0.0	3567.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15409.8	0.0	15409.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	18977.0	0.0	18977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.0	2.6
10°-20°	1321.5	7.0
20°-30°	2226.0	11.7
30°-40°	3735.4	19.7
40°-50°	5714.2	30.1
50°-60°	4166.1	22.0
60°-70°	927.2	4.9
70°-80°	334.4	1.8
80°-90°	59.2	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°	18977.0	100.0
0°-180°	18977.0	100.0

**Coefficient of Utilization**

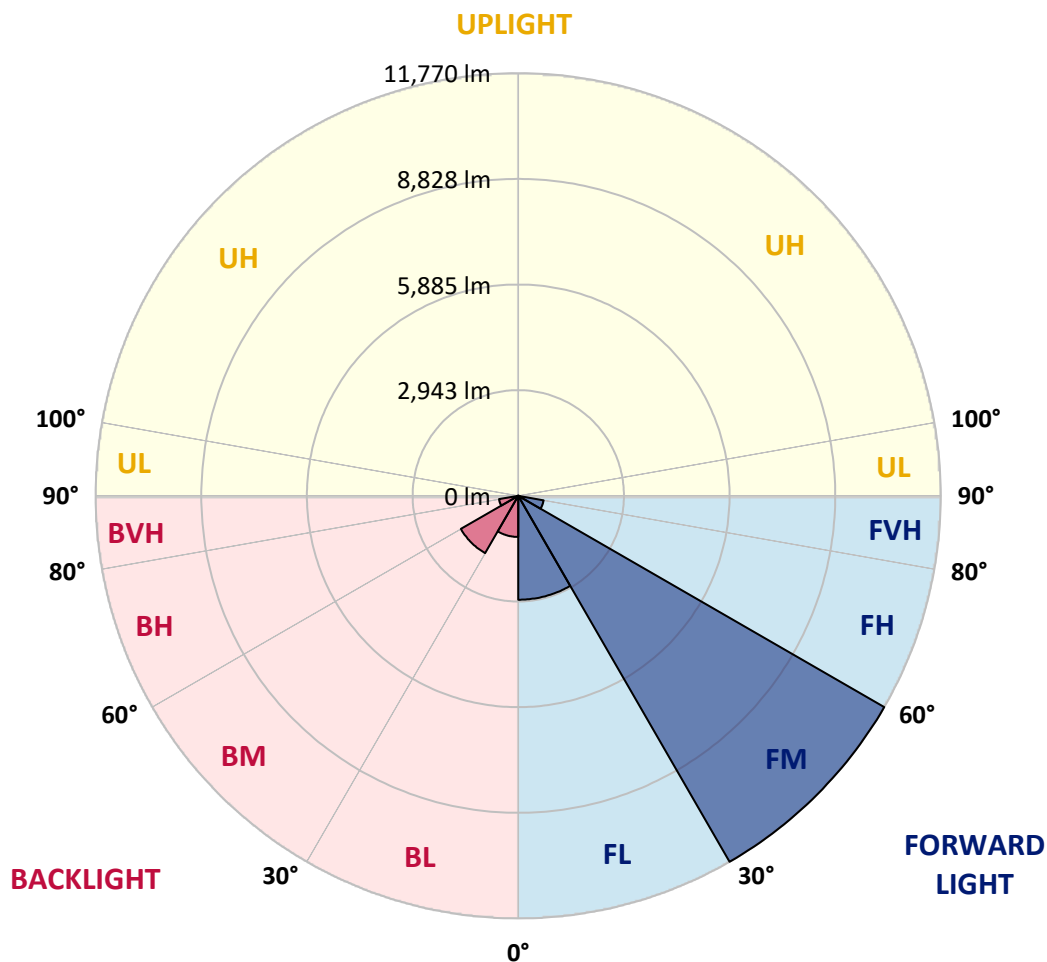


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2894.6	15.3			
FM (30°-60°)	11770.5	62.0			
FH (60°-80°)	718.1	3.8			G1/1800
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	1145.9	6.0	B3/2500		
BM (30°-60°)	1845.2	9.7	B2/2500		
BH (60°-80°)	543.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	32.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3
2.5°	6298.4	6177.2	6190.9	6104.0	6010.2	5982.8	5886.7	5795.3	5726.7	5580.3	5445.4
5°	6883.9	6847.3	6792.4	6723.8	6652.9	6479.1	6380.7	6266.4	6014.8	5788.4	5564.3
7.5°	6968.5	6961.6	6991.4	6991.4	7016.5	6950.2	6810.7	6730.7	6463.1	6094.9	5678.6
10°	6373.9	6394.5	6538.5	6726.1	6986.8	7167.5	7144.6	7124.0	6831.3	6328.1	5813.6
12.5°	5900.5	5854.7	5939.3	6099.4	6490.5	6927.3	7222.4	7224.6	7149.2	6700.9	5911.9
15°	5632.9	5664.9	5687.8	5763.2	6058.3	6563.7	7082.9	7236.1	7567.7	6963.9	6067.4
17.5°	5804.4	5696.9	5692.4	5710.6	5861.6	6241.2	6824.4	7087.4	7796.4	7302.4	6259.5
20°	6028.5	6026.3	5962.2	5939.3	5937.1	6275.5	6655.2	7012.0	7917.6	7741.5	6453.9
22.5°	6421.9	6421.9	6316.7	6266.4	6158.9	6435.6	6678.1	6920.5	8118.9	8043.4	6547.7
25°	7080.6	6973.1	6792.4	6668.9	6607.2	6705.5	6920.5	7137.7	8295.0	8363.6	6742.1
27.5°	7688.9	7519.7	7430.5	7217.8	7135.5	7078.3	7275.0	7494.5	8500.8	8862.1	6847.3
30°	8379.6	8349.9	8189.8	7915.3	7711.8	7606.6	7787.2	8004.5	8878.1	9372.1	7089.7
32.5°	9614.6	9344.7	9127.4	8791.2	8459.6	8235.5	8413.9	8558.0	9504.8	9905.0	7355.0
35°	10947.9	10861.0	10485.9	9879.9	9372.1	9170.9	9276.1	9383.6	10234.3	10719.2	7801.0
37.5°	12258.3	12139.4	11830.7	11320.7	10703.2	10293.8	10369.3	10495.1	11053.1	11816.9	8345.3
40°	13200.6	13054.2	12898.7	12823.2	12210.3	11650.0	11606.5	11638.6	12160.0	12846.1	8949.0
42.5°	13269.2	13449.9	13497.9	13802.1	13658.0	13198.3	12930.7	12937.6	13216.6	13863.8	9559.7
45°	13125.1	12958.2	13312.6	14142.8	14618.5	14833.5	14383.0	14325.8	13870.7	14453.9	9863.8
47.5°	11613.4	11659.1	12258.3	13571.1	14945.6	15906.1	15800.9	15611.1	14220.6	14433.3	9815.8
50°	9180.0	9456.8	10012.5	11647.7	14030.8	16075.3	16695.1	16256.0	14012.5	13866.1	9326.4
52.5°	6113.2	6227.5	6593.4	8704.3	11281.8	14369.2	15666.0	15766.6	13820.4	13122.8	8706.6
55°	2721.5	2712.4	3227.0	4546.6	7078.3	10934.2	12800.4	13413.3	13081.7	12365.8	8102.9
57.5°	1152.6	1191.5	1401.9	1964.5	3480.8	6598.0	8672.3	9209.8	10060.5	10154.3	6216.1
60°	779.9	784.4	841.6	983.4	1456.8	3098.9	4548.9	5193.8	5802.1	5761.0	3297.9
62.5°	612.9	628.9	672.4	729.6	864.5	1406.5	2035.4	2394.5	2433.4	2046.9	1251.0
65°	523.7	526.0	569.5	617.5	677.0	818.7	981.1	999.4	1010.9	974.3	919.4
67.5°	432.2	436.8	471.1	526.0	580.9	626.6	672.4	695.2	747.9	850.8	837.0
70°	343.1	349.9	379.6	425.4	475.7	503.1	560.3	580.9	628.9	709.0	741.0
72.5°	260.7	263.0	288.2	320.2	365.9	393.4	441.4	464.3	496.3	564.9	594.6
75°	187.5	194.4	212.7	228.7	235.6	253.9	299.6	324.8	370.5	400.2	402.5
77.5°	98.3	102.9	107.5	107.5	130.4	164.7	194.4	208.1	240.1	263.0	251.6
80°	38.9	41.2	52.6	70.9	91.5	118.9	139.5	146.4	173.8	187.5	194.4
82.5°	22.9	25.2	34.3	50.3	66.3	84.6	100.6	107.5	125.8	141.8	146.4
85°	11.4	13.7	20.6	32.0	43.5	52.6	50.3	48.0	48.0	45.7	48.0
87.5°	4.6	4.6	6.9	6.9	6.9	9.1	11.4	11.4	11.4	13.7	13.7
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°	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3	5349.3
2.5°	5356.2	5264.7	5180.1	5024.5	4855.3	4807.3	4610.6	4539.7	4489.4	4429.9	4411.6
5°	5383.6	5262.4	4990.2	4676.9	4427.6	4107.5	3897.1	3670.6	3506.0	3464.8	3453.4
7.5°	5440.8	5232.7	4763.8	4290.4	3780.4	3345.9	3014.3	2835.9	2678.1	2668.9	2652.9
10°	5504.8	5143.5	4516.8	3773.6	3121.8	2719.2	2520.3	2442.5	2403.6	2394.5	2389.9
12.5°	5557.4	5125.2	4240.1	3270.4	2655.2	2412.8	2353.3	2346.5	2362.5	2367.0	2376.2
15°	5580.3	5052.0	3906.2	2819.9	2364.8	2275.6	2300.7	2328.2	2339.6	2369.3	2346.5
17.5°	5623.7	4958.2	3494.5	2463.1	2202.4	2218.4	2261.8	2293.9	2312.2	2332.7	2303.0
20°	5646.6	4873.6	3108.0	2250.4	2145.2	2174.9	2234.4	2259.6	2282.4	2291.6	2257.3
22.5°	5626.0	4699.8	2767.3	2078.9	2090.3	2129.2	2181.8	2209.2	2195.5	2158.9	2138.3
25°	5571.1	4455.1	2412.8	1969.1	2012.6	2081.2	2122.3	2101.8	2076.6	2056.0	2049.2
27.5°	5568.9	4155.5	2156.6	1868.5	1946.2	2040.0	2026.3	2008.0	2019.4	2003.4	1985.1
30°	5580.3	3865.0	1946.2	1811.3	1898.2	1944.0	1960.0	1941.7	1955.4	1925.7	1934.8
32.5°	5520.8	3581.4	1809.0	1745.0	1841.0	1838.8	1891.4	1905.1	1873.1	1811.3	1820.5
35°	5546.0	3352.7	1692.4	1715.3	1777.0	1777.0	1818.2	1802.2	1717.5	1680.9	1690.1
37.5°	5719.8	3128.6	1635.2	1674.1	1715.3	1733.5	1719.8	1651.2	1630.6	1630.6	1635.2
40°	5884.5	2936.5	1600.9	1664.9	1658.1	1669.5	1568.9	1575.7	1575.7	1578.0	1566.6
42.5°	6030.8	2806.2	1573.5	1610.1	1621.5	1562.0	1500.3	1493.4	1509.4	1507.1	1498.0
45°	6083.4	2698.7	1534.6	1548.3	1557.4	1459.1	1429.4	1415.7	1434.0	1440.8	1450.0
47.5°	5882.2	2609.5	1491.1	1463.7	1445.4	1381.4	1342.5	1317.3	1340.2	1379.1	1388.2
50°	5623.7	2492.8	1422.5	1369.9	1331.0	1303.6	1276.1	1251.0	1267.0	1294.4	1287.6
52.5°	5241.8	2309.9	1335.6	1280.7	1214.4	1221.3	1196.1	1182.4	1191.5	1191.5	1184.7
55°	4697.5	1898.2	1189.2	1150.4	1095.5	1113.8	1118.3	1100.0	1081.8	1097.8	1084.0
57.5°	3206.4	1340.2	1061.2	1061.2	1006.3	1031.4	1029.2	985.7	942.2	946.8	937.7
60°	1854.8	1068.0	978.8	969.7	912.5	933.1	937.7	907.9	841.6	846.2	837.0
62.5°	1054.3	912.5	855.3	841.6	830.2	848.5	848.5	809.6	752.4	757.0	747.9
65°	896.5	846.2	763.9	761.6	757.0	761.6	743.3	702.1	651.8	631.2	633.5
67.5°	814.2	782.2	702.1	681.5	667.8	665.5	631.2	592.3	569.5	551.2	548.9
70°	713.5	688.4	628.9	601.5	587.8	555.7	521.4	496.3	464.3	455.1	464.3
72.5°	564.9	562.6	539.7	510.0	480.3	455.1	425.4	391.1	361.3	354.5	338.5
75°	391.1	395.7	400.2	395.7	370.5	338.5	304.2	276.7	240.1	219.6	215.0
77.5°	256.1	263.0	269.9	260.7	244.7	215.0	192.1	157.8	130.4	114.4	112.1
80°	187.5	196.7	201.3	194.4	176.1	153.2	128.1	100.6	80.0	66.3	66.3
82.5°	144.1	153.2	157.8	146.4	128.1	109.8	91.5	70.9	54.9	43.5	41.2
85°	50.3	48.0	57.2	59.5	70.9	66.3	54.9	41.2	32.0	22.9	20.6
87.5°	13.7	13.7	16.0	16.0	13.7	11.4	11.4	11.4	9.1	6.9	6.9
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)