

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: P529112

Luminaire Tested: **GALN-SA4B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529112
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-SA4B-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 18498 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

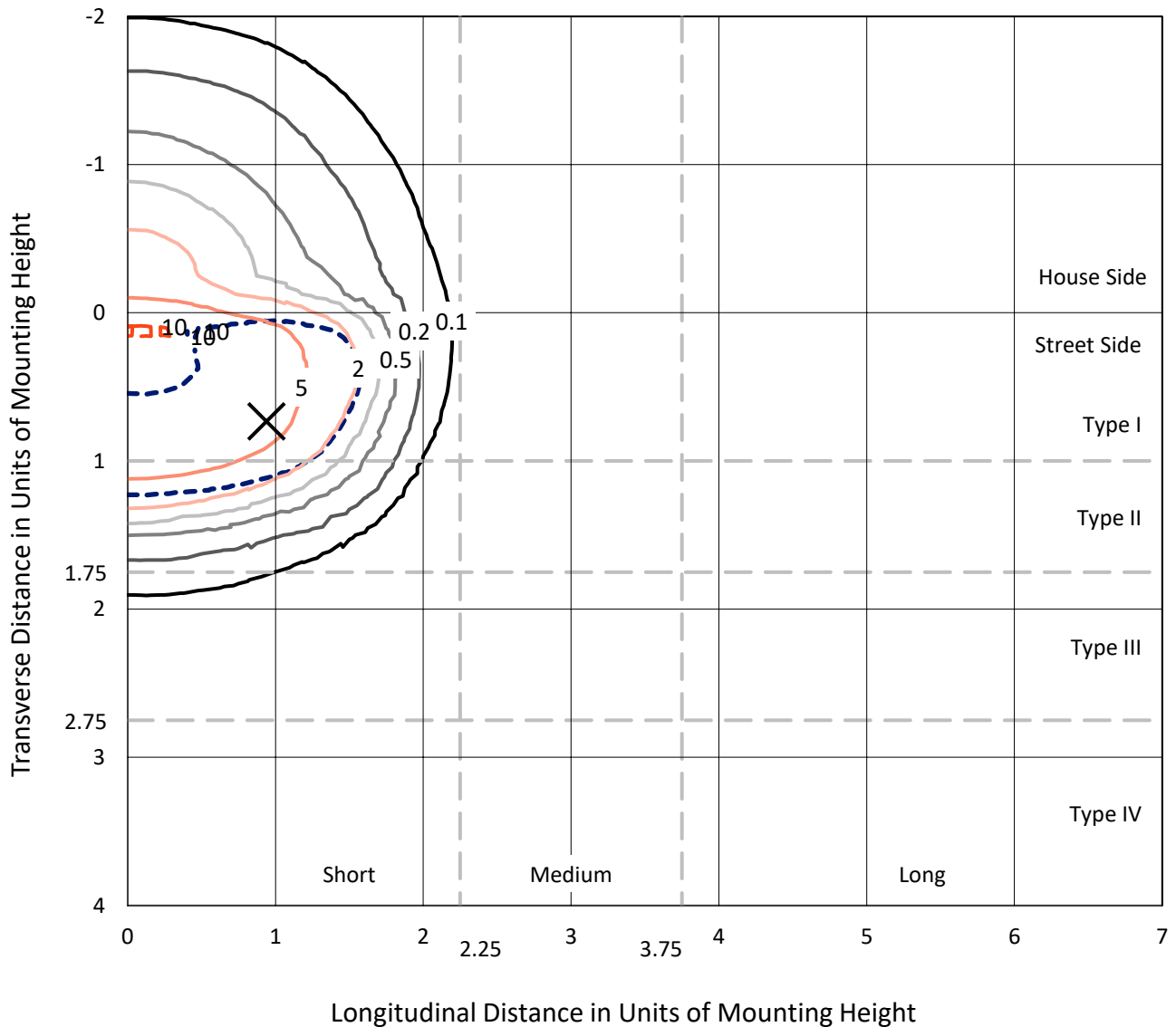
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

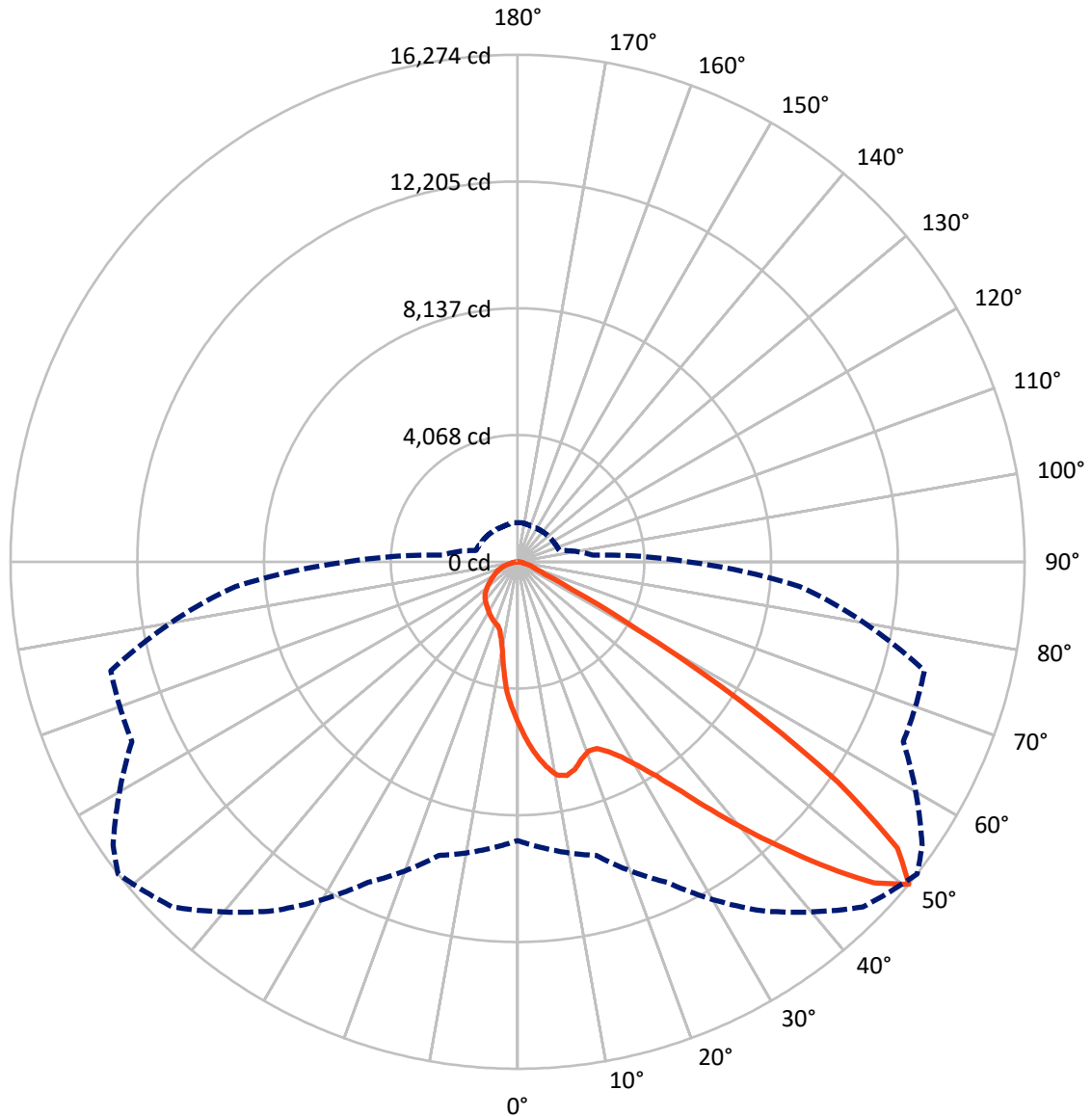
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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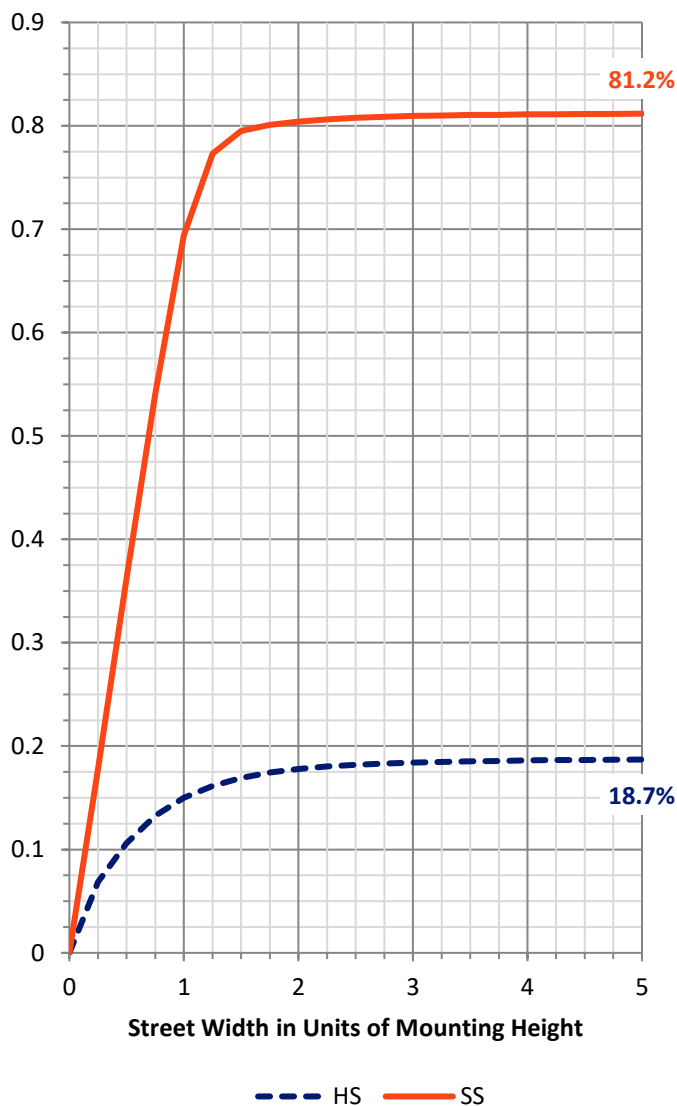
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.2	0.0	3477.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15020.8	0.0	15020.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	18498.0	0.0	18498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.6	2.6
10°-20°	1288.1	7.0
20°-30°	2169.8	11.7
30°-40°	3641.1	19.7
40°-50°	5570.0	30.1
50°-60°	4061.0	22.0
60°-70°	903.8	4.9
70°-80°	326.0	1.8
80°-90°	57.7	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°	18498.0	100.0
0°-180°	18498.0	100.0

Coefficient of Utilization

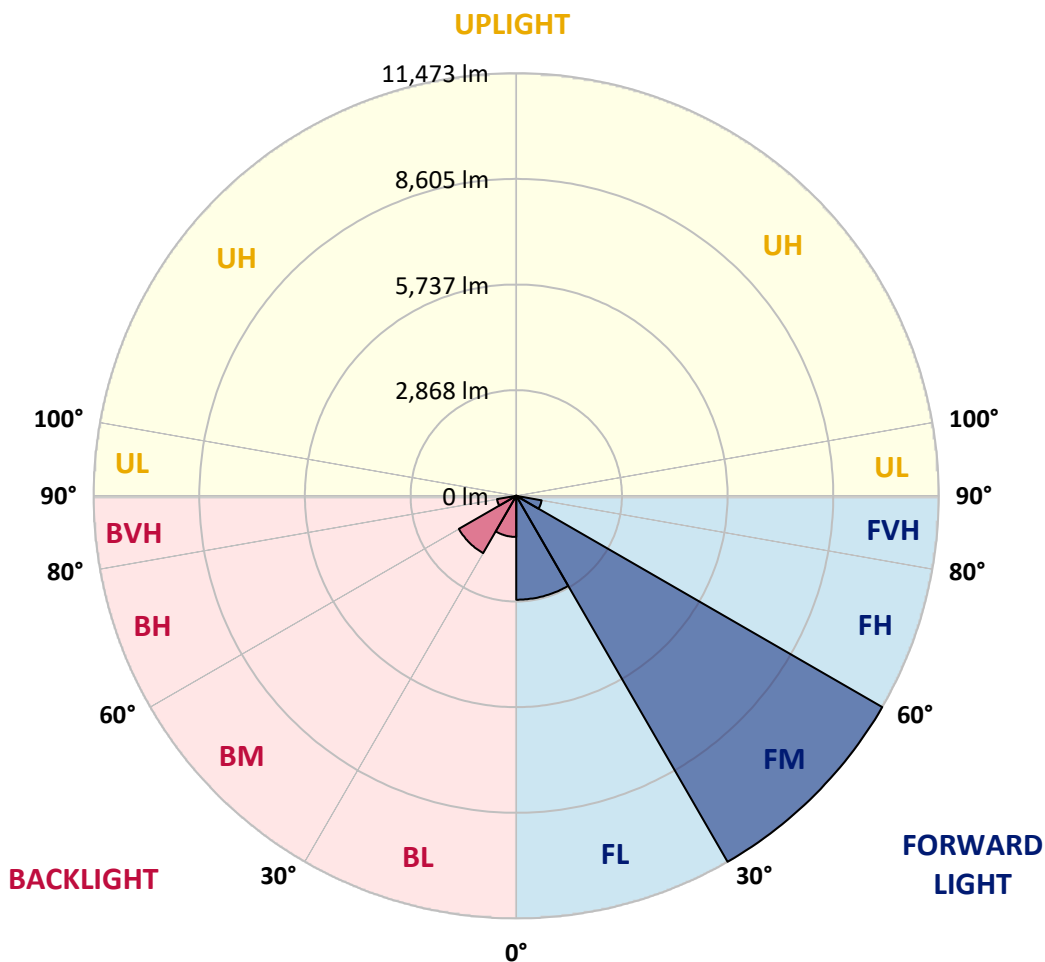


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.6	15.3			
FM (30°-60°)	11473.4	62.0			
FH (60°-80°)	700.0	3.8			G1/1800
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1116.9	6.0	B3/2500		
BM (30°-60°)	1798.6	9.7	B2/2500		
BH (60°-80°)	529.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3
2.5°	6139.4	6021.3	6034.7	5949.9	5858.5	5831.8	5738.2	5649.0	5582.1	5439.4	5307.9
5°	6710.1	6674.5	6621.0	6554.1	6485.0	6315.5	6219.7	6108.2	5863.0	5642.3	5423.8
7.5°	6792.6	6785.9	6814.9	6814.9	6839.4	6774.8	6638.8	6560.8	6299.9	5941.0	5535.3
10°	6213.0	6233.1	6373.5	6556.3	6810.4	6986.6	6964.3	6944.2	6658.9	6168.4	5666.8
12.5°	5751.5	5706.9	5789.4	5945.5	6326.7	6752.5	7040.1	7042.3	6968.7	6531.8	5762.7
15°	5490.7	5521.9	5544.2	5617.8	5905.4	6398.0	6904.1	7053.4	7376.7	6788.1	5914.3
17.5°	5657.9	5553.1	5548.7	5566.5	5713.6	6083.7	6652.2	6908.5	7599.6	7118.1	6101.5
20°	5876.4	5874.1	5811.7	5789.4	5787.2	6117.1	6487.2	6835.0	7717.8	7546.1	6291.0
22.5°	6259.8	6259.8	6157.3	6108.2	6003.4	6273.2	6509.5	6745.8	7913.9	7840.4	6382.4
25°	6901.8	6797.1	6621.0	6500.6	6440.4	6536.2	6745.8	6957.6	8085.6	8152.5	6571.9
27.5°	7494.8	7329.9	7242.9	7035.6	6955.3	6899.6	7091.3	7305.3	8286.2	8638.4	6674.5
30°	8168.1	8139.1	7983.0	7715.5	7517.1	7414.6	7590.7	7802.5	8654.1	9135.6	6910.8
32.5°	9371.9	9108.8	8897.0	8569.3	8246.1	8027.6	8201.5	8342.0	9264.9	9655.0	7169.4
35°	10671.6	10586.8	10221.2	9630.5	9135.6	8939.4	9041.9	9146.7	9976.0	10448.6	7604.1
37.5°	11948.9	11833.0	11532.1	11034.9	10433.0	10034.0	10107.5	10230.2	10774.1	11518.7	8134.6
40°	12867.4	12724.7	12573.1	12499.6	11902.1	11355.9	11313.6	11344.8	11853.1	12521.9	8723.2
42.5°	12934.3	13110.4	13157.2	13453.7	13313.2	12865.2	12604.3	12611.0	12883.0	13513.9	9318.4
45°	12793.8	12631.1	12976.6	13785.9	14249.5	14459.1	14019.9	13964.2	13520.6	14089.0	9614.9
47.5°	11320.3	11364.9	11948.9	13228.5	14568.3	15504.6	15402.1	15217.0	13861.6	14069.0	9568.1
50°	8948.3	9218.1	9759.8	11353.7	13676.6	15669.6	16273.7	15845.7	13658.8	13516.1	9091.0
52.5°	5958.9	6070.3	6427.0	8484.6	10997.0	14006.5	15270.5	15368.6	13471.5	12791.6	8486.9
55°	2652.8	2643.9	3145.5	4431.8	6899.6	10658.2	12477.3	13074.7	12751.5	12053.7	7898.3
57.5°	1123.6	1161.5	1366.5	1914.9	3393.0	6431.5	8453.4	8977.3	9806.6	9898.0	6059.2
60°	760.2	764.6	820.4	958.6	1420.0	3020.7	4434.0	5062.7	5655.7	5615.5	3214.6
62.5°	597.4	613.1	655.4	711.1	842.7	1371.0	1984.1	2334.1	2372.0	1995.2	1219.4
65°	510.5	512.7	555.1	601.9	659.9	798.1	956.4	974.2	985.3	949.7	896.2
67.5°	421.3	425.8	459.2	512.7	566.2	610.8	655.4	677.7	729.0	829.3	815.9
70°	334.4	341.1	370.1	414.6	463.7	490.4	546.2	566.2	613.1	691.1	722.3
72.5°	254.1	256.4	280.9	312.1	356.7	383.4	430.3	452.5	483.8	550.6	579.6
75°	182.8	189.5	207.3	222.9	229.6	247.4	292.0	316.6	361.1	390.1	392.4
77.5°	95.9	100.3	104.8	104.8	127.1	160.5	189.5	202.9	234.1	256.4	245.2
80°	37.9	40.1	51.3	69.1	89.2	115.9	136.0	142.7	169.4	182.8	189.5
82.5°	22.3	24.5	33.4	49.0	64.6	82.5	98.1	104.8	122.6	138.2	142.7
85°	11.1	13.4	20.1	31.2	42.4	51.3	49.0	46.8	46.8	44.6	46.8
87.5°	4.5	4.5	6.7	6.7	6.7	8.9	11.1	11.1	11.1	13.4	13.4
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°	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3	5214.3
2.5°	5221.0	5131.8	5049.3	4897.7	4732.8	4685.9	4494.2	4425.1	4376.1	4318.1	4300.3
5°	5247.7	5129.6	4864.3	4558.9	4315.9	4003.8	3798.7	3578.0	3417.5	3377.4	3366.2
7.5°	5303.5	5100.6	4643.6	4182.1	3685.0	3261.4	2938.2	2764.3	2610.5	2601.6	2586.0
10°	5365.9	5013.6	4402.8	3678.3	3043.0	2650.6	2456.7	2380.9	2343.0	2334.1	2329.6
12.5°	5417.1	4995.8	4133.1	3187.9	2588.2	2351.9	2293.9	2287.2	2302.8	2307.3	2316.2
15°	5439.4	4924.5	3807.6	2748.7	2305.1	2218.1	2242.7	2269.4	2280.6	2309.5	2287.2
17.5°	5481.8	4833.1	3406.3	2400.9	2146.8	2162.4	2204.8	2236.0	2253.8	2273.9	2244.9
20°	5504.1	4750.6	3029.6	2193.6	2091.1	2120.0	2178.0	2202.5	2224.8	2233.7	2200.3
22.5°	5484.0	4581.2	2697.4	2026.4	2037.6	2075.5	2126.7	2153.5	2140.1	2104.4	2084.4
25°	5430.5	4342.6	2351.9	1919.4	1961.8	2028.6	2068.8	2048.7	2024.2	2004.1	1997.4
27.5°	5428.3	4050.6	2102.2	1821.3	1897.1	1988.5	1975.1	1957.3	1968.5	1952.8	1935.0
30°	5439.4	3767.5	1897.1	1765.6	1850.3	1894.9	1910.5	1892.7	1906.0	1877.1	1886.0
32.5°	5381.5	3491.0	1763.4	1700.9	1794.6	1792.3	1843.6	1857.0	1825.8	1765.6	1774.5
35°	5406.0	3268.1	1649.7	1672.0	1732.1	1732.1	1772.3	1756.7	1674.2	1638.5	1647.4
37.5°	5575.4	3049.7	1593.9	1631.8	1672.0	1689.8	1676.4	1609.5	1589.5	1589.5	1593.9
40°	5735.9	2862.4	1560.5	1622.9	1616.2	1627.4	1529.3	1536.0	1536.0	1538.2	1527.1
42.5°	5878.6	2735.3	1533.7	1569.4	1580.6	1522.6	1462.4	1455.7	1471.3	1469.1	1460.2
45°	5929.9	2630.5	1495.8	1509.2	1518.1	1422.3	1393.3	1379.9	1397.8	1404.4	1413.4
47.5°	5733.7	2543.6	1453.5	1426.7	1408.9	1346.5	1308.6	1284.1	1306.4	1344.3	1353.2
50°	5481.8	2429.9	1386.6	1335.3	1297.4	1270.7	1243.9	1219.4	1235.0	1261.8	1255.1
52.5°	5109.5	2251.6	1301.9	1248.4	1183.7	1190.4	1165.9	1152.5	1161.5	1161.5	1154.8
55°	4578.9	1850.3	1159.2	1121.3	1067.8	1085.7	1090.1	1072.3	1054.4	1070.1	1056.7
57.5°	3125.4	1306.4	1034.4	1034.4	980.9	1005.4	1003.2	960.8	918.5	922.9	914.0
60°	1807.9	1041.1	954.1	945.2	889.5	909.5	914.0	885.0	820.4	824.8	815.9
62.5°	1027.7	889.5	833.7	820.4	809.2	827.1	827.1	789.2	733.4	737.9	729.0
65°	873.9	824.8	744.6	742.3	737.9	742.3	724.5	684.4	635.3	615.3	617.5
67.5°	793.6	762.4	684.4	664.3	650.9	648.7	615.3	577.4	555.1	537.3	535.0
70°	695.5	671.0	613.1	586.3	572.9	541.7	508.3	483.8	452.5	443.6	452.5
72.5°	550.6	548.4	526.1	497.1	468.1	443.6	414.6	381.2	352.2	345.5	329.9
75°	381.2	385.7	390.1	385.7	361.1	329.9	296.5	269.7	234.1	214.0	209.6
77.5°	249.7	256.4	263.1	254.1	238.5	209.6	187.3	153.8	127.1	111.5	109.2
80°	182.8	191.7	196.2	189.5	171.7	149.4	124.8	98.1	78.0	64.6	64.6
82.5°	140.4	149.4	153.8	142.7	124.8	107.0	89.2	69.1	53.5	42.4	40.1
85°	49.0	46.8	55.7	58.0	69.1	64.6	53.5	40.1	31.2	22.3	20.1
87.5°	13.4	13.4	15.6	15.6	13.4	11.1	11.1	11.1	8.9	6.7	6.7
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)