

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: P530906

Luminaire Tested: **GALN-SA6A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530906
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-SA6A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 19445 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182
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

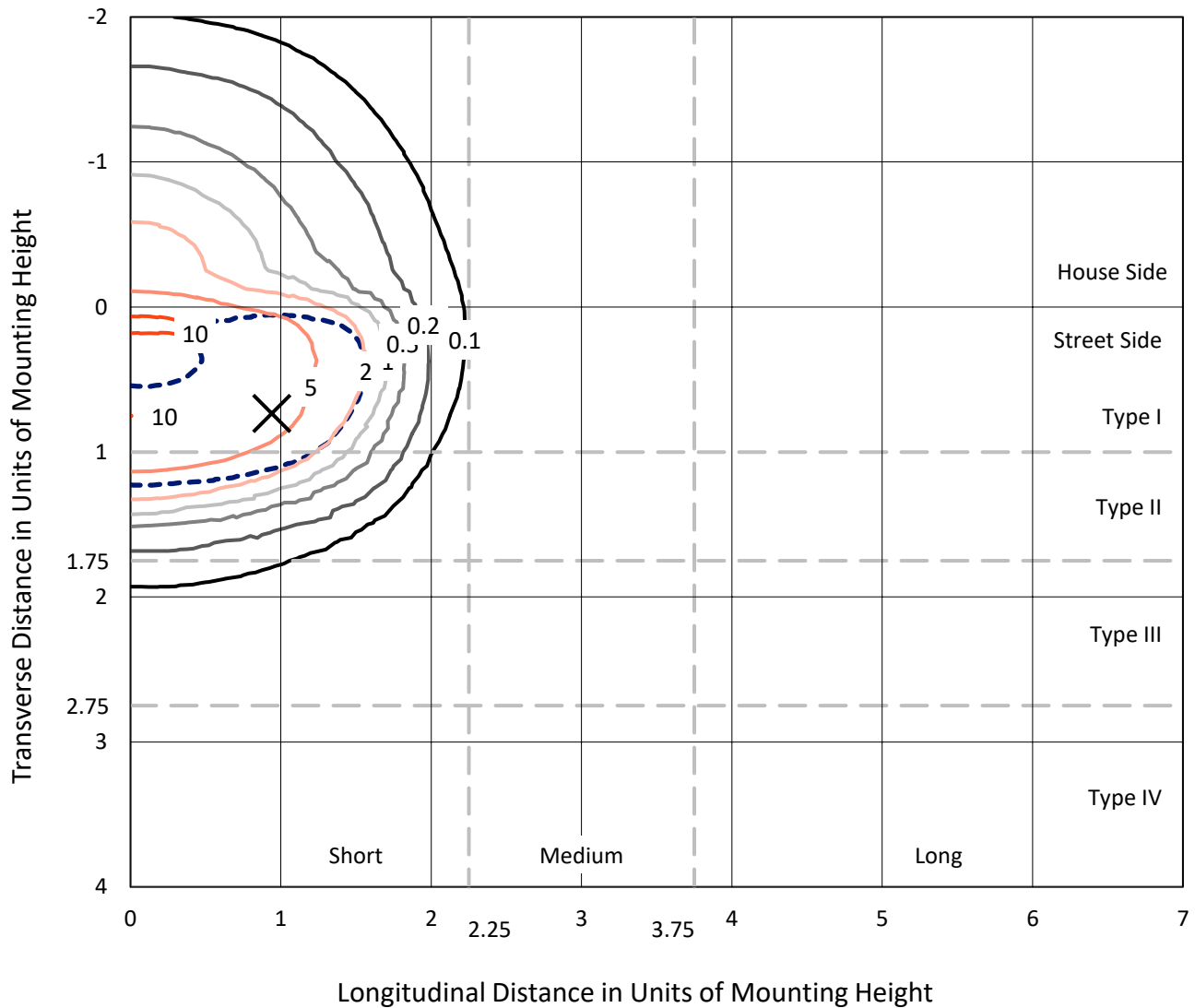


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Iso-Footcandle Lines of Horizontal Illumination

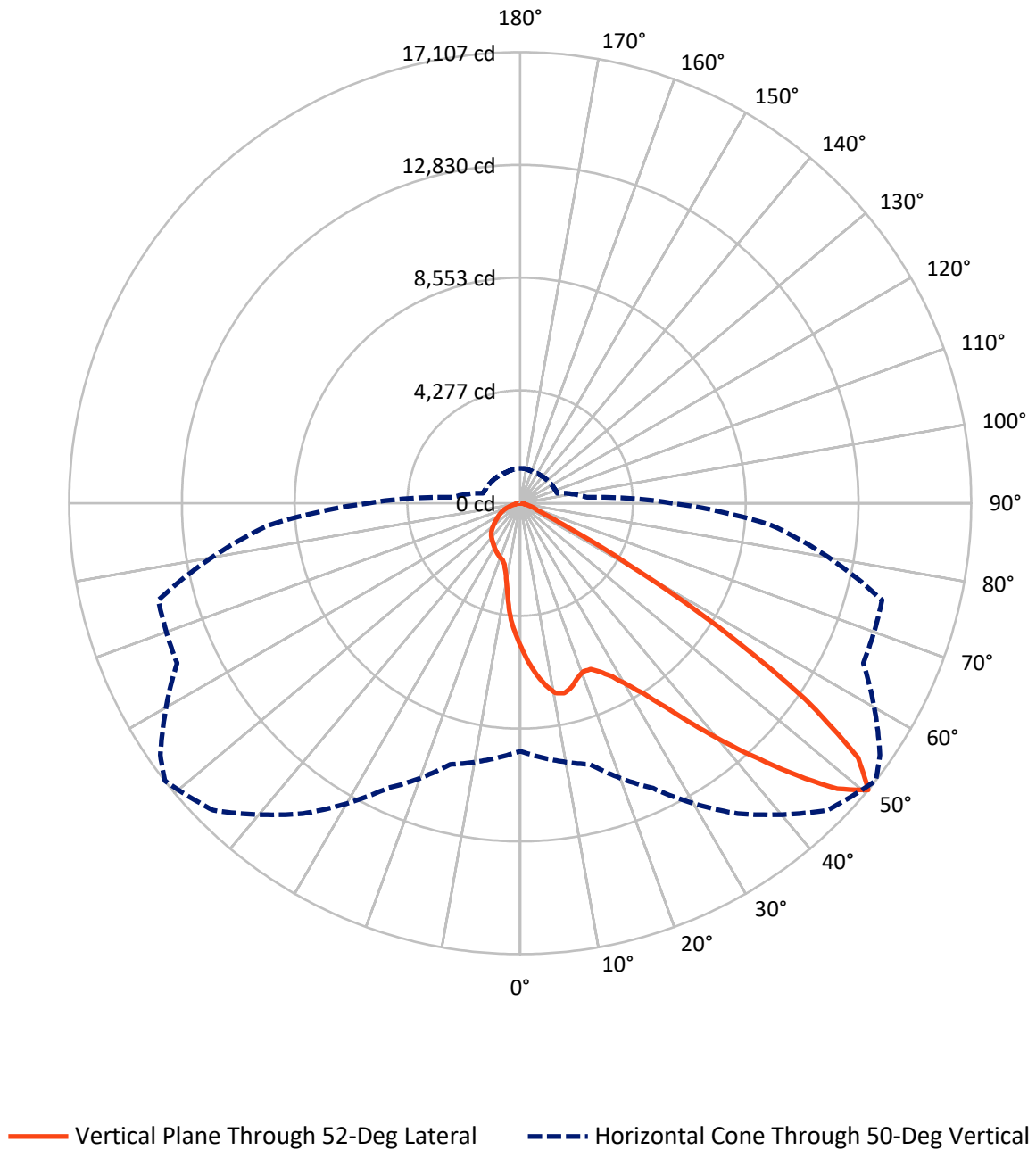
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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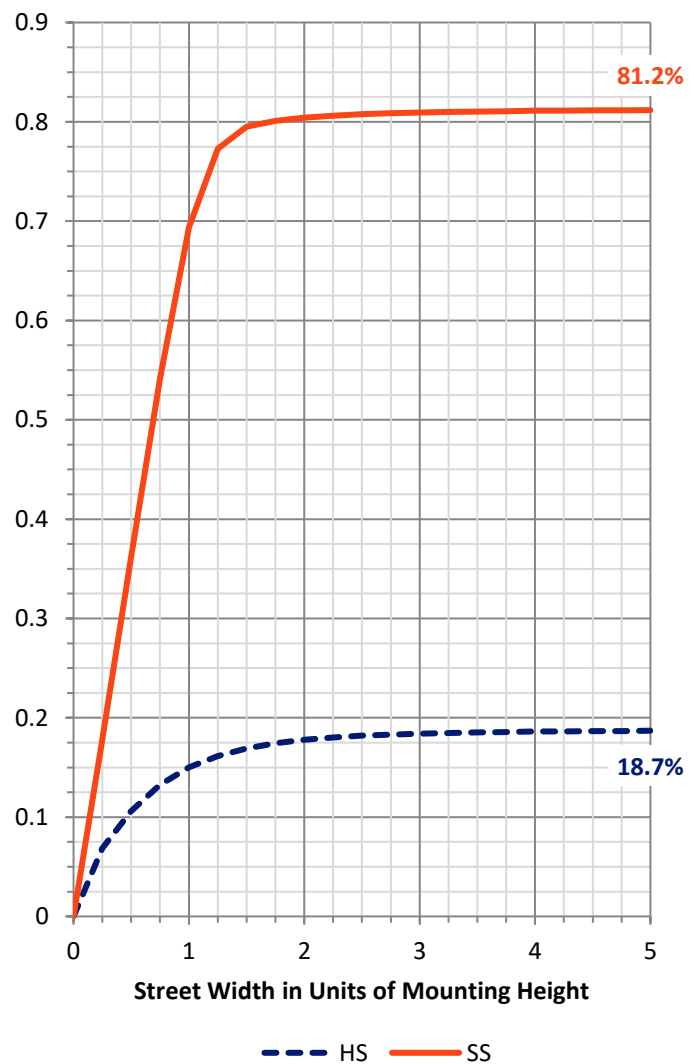
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3655.2	0.0	3655.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15789.8	0.0	15789.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	19445.0	0.0	19445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.2	2.6
10°-20°	1354.1	7.0
20°-30°	2280.9	11.7
30°-40°	3827.5	19.7
40°-50°	5855.1	30.1
50°-60°	4268.9	22.0
60°-70°	950.0	4.9
70°-80°	342.7	1.8
80°-90°	60.7	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°	19445.0	100.0
0°-180°	19445.0	100.0

Coefficient of Utilization



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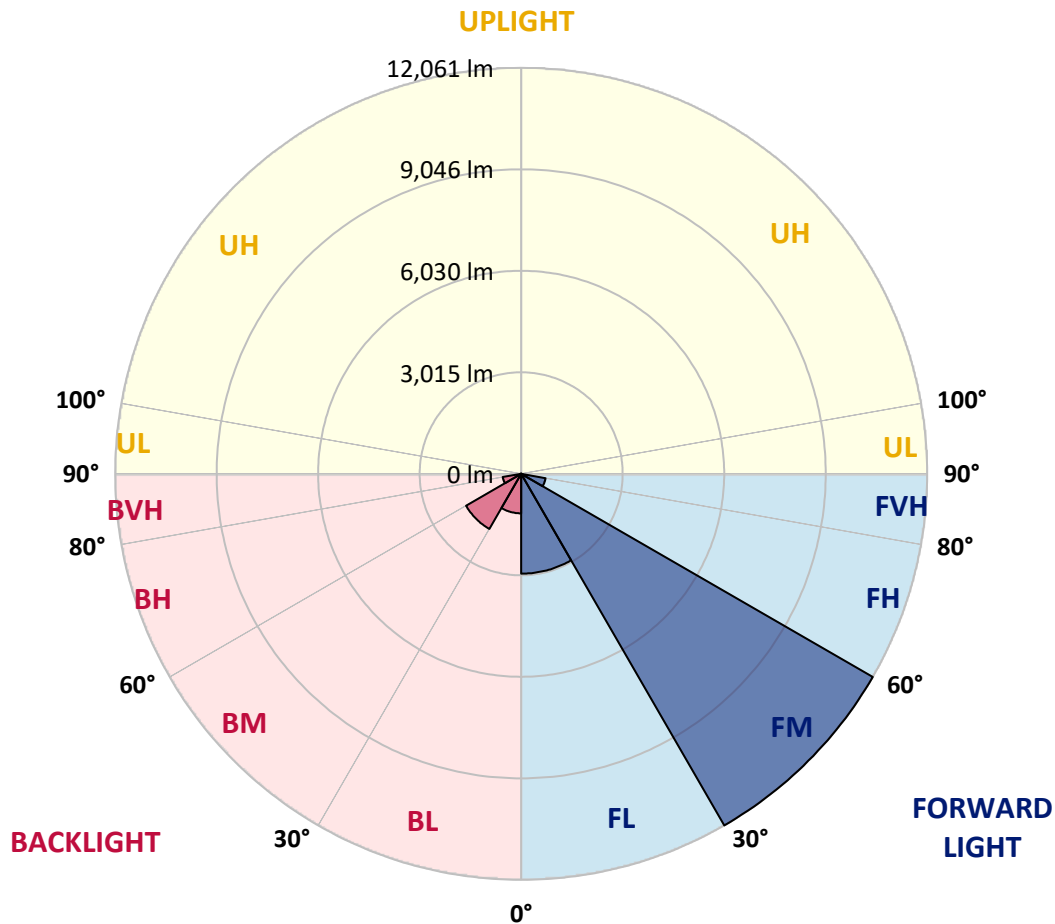
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2966.0	15.3			
FM	(30°-60°)	12060.8	62.0			
FH	(60°-80°)	735.8	3.8			G1/1800
FVH	(80°-90°)	27.2	0.1			G1/100
BL	(0°-30°)	1174.1	6.0	B3/2500		
BM	(30°-60°)	1890.7	9.7	B2/2500		
BH	(60°-80°)	556.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	33.5	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°	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2
2.5°	6453.7	6329.5	6343.6	6254.5	6158.5	6130.3	6031.9	5938.2	5867.9	5717.9	5579.6
5°	7053.6	7016.2	6959.9	6889.6	6817.0	6638.9	6538.1	6420.9	6163.2	5931.2	5701.5
7.5°	7140.4	7133.3	7163.8	7163.8	7189.6	7121.6	6978.7	6896.6	6622.5	6245.2	5818.7
10°	6531.1	6552.2	6699.8	6892.0	7159.1	7344.2	7320.8	7299.7	6999.7	6484.2	5956.9
12.5°	6046.0	5999.1	6085.8	6249.9	6650.6	7098.2	7400.5	7402.8	7325.5	6866.2	6057.7
15°	5771.8	5804.6	5828.0	5905.4	6207.7	6725.6	7257.5	7414.5	7754.3	7135.7	6217.1
17.5°	5947.6	5837.4	5832.7	5851.5	6006.1	6395.2	6992.7	7262.2	7988.7	7482.5	6413.9
20°	6177.2	6174.9	6109.3	6085.8	6083.5	6430.3	6819.3	7184.9	8112.9	7932.4	6613.1
22.5°	6580.3	6580.3	6472.5	6420.9	6310.8	6594.3	6842.7	7091.1	8319.1	8241.8	6709.2
25°	7255.2	7145.0	6959.9	6833.4	6770.1	6870.9	7091.1	7313.8	8499.5	8569.8	6908.4
27.5°	7878.5	7705.1	7613.7	7395.8	7311.4	7252.8	7454.4	7679.3	8710.4	9080.7	7016.2
30°	8586.2	8555.8	8391.7	8110.5	7902.0	7794.2	7979.3	8201.9	9097.1	9603.3	7264.6
32.5°	9851.7	9575.2	9352.5	9008.0	8668.3	8438.6	8621.4	8769.0	9739.2	10149.3	7536.4
35°	11217.9	11128.8	10744.5	10123.5	9603.3	9397.1	9504.8	9615.0	10486.7	10983.5	7993.4
37.5°	12560.6	12438.8	12122.4	11599.9	10967.1	10547.7	10625.0	10753.9	11325.7	12108.4	8551.1
40°	13526.1	13376.2	13216.8	13139.5	12511.4	11937.3	11892.8	11925.6	12459.9	13162.9	9169.7
42.5°	13596.4	13781.6	13830.8	14142.4	13994.8	13523.8	13249.6	13256.6	13542.5	14205.7	9795.4
45°	13448.8	13277.7	13641.0	14491.6	14979.0	15199.3	14737.7	14679.1	14212.7	14810.3	10107.1
47.5°	11899.8	11946.7	12560.6	13905.8	15314.1	16298.4	16190.6	15996.1	14571.3	14789.2	10057.9
50°	9406.4	9690.0	10259.4	11935.0	14376.8	16471.8	17106.9	16656.9	14358.0	14208.1	9556.4
52.5°	6263.9	6381.1	6756.0	8919.0	11560.0	14723.6	16052.3	16155.4	14161.2	13446.5	8921.3
55°	2788.7	2779.3	3306.5	4658.7	7252.8	11203.8	13116.0	13744.1	13404.3	12670.8	8302.7
57.5°	1181.1	1220.9	1436.5	2013.0	3566.7	6760.7	8886.2	9436.9	10308.6	10404.7	6369.4
60°	799.1	803.8	862.4	1007.7	1492.7	3175.3	4661.0	5321.9	5945.2	5903.0	3379.2
62.5°	628.0	644.4	689.0	747.5	885.8	1441.2	2085.6	2453.5	2493.4	2097.3	1281.8
65°	536.6	539.0	583.5	632.7	693.6	838.9	1005.3	1024.1	1035.8	998.3	942.0
67.5°	442.9	447.6	482.7	539.0	595.2	642.1	689.0	712.4	766.3	871.7	857.7
70°	351.5	358.5	389.0	435.9	487.4	515.5	574.1	595.2	644.4	726.5	759.3
72.5°	267.1	269.5	295.3	328.1	374.9	403.1	452.3	475.7	508.5	578.8	609.3
75°	192.2	199.2	217.9	234.3	241.4	260.1	307.0	332.8	379.6	410.1	412.4
77.5°	100.8	105.5	110.1	110.1	133.6	168.7	199.2	213.2	246.1	269.5	257.8
80°	39.8	42.2	53.9	72.6	93.7	121.9	142.9	150.0	178.1	192.2	199.2
82.5°	23.4	25.8	35.2	51.6	68.0	86.7	103.1	110.1	128.9	145.3	150.0
85°	11.7	14.1	21.1	32.8	44.5	53.9	51.6	49.2	49.2	46.9	49.2
87.5°	4.7	4.7	7.0	7.0	7.0	9.4	11.7	11.7	11.7	14.1	14.1
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°	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2	5481.2
2.5°	5488.3	5394.5	5307.8	5148.5	4975.0	4925.8	4724.3	4651.7	4600.1	4539.2	4520.4
5°	5516.4	5392.2	5113.3	4792.3	4536.8	4208.8	3993.2	3761.2	3592.4	3550.3	3538.5
7.5°	5575.0	5361.7	4881.3	4396.2	3873.6	3428.4	3088.6	2905.8	2744.1	2734.8	2718.3
10°	5640.6	5270.3	4628.2	3866.6	3198.7	2786.3	2582.4	2502.8	2462.9	2453.5	2448.9
12.5°	5694.5	5251.6	4344.7	3351.1	2720.7	2472.3	2411.4	2404.3	2420.7	2425.4	2434.8
15°	5717.9	5176.6	4002.5	2889.4	2423.1	2331.7	2357.5	2385.6	2397.3	2427.8	2404.3
17.5°	5762.4	5080.5	3580.7	2523.8	2256.7	2273.1	2317.6	2350.4	2369.2	2390.3	2359.8
20°	5785.9	4993.8	3184.7	2305.9	2198.1	2228.6	2289.5	2315.3	2338.7	2348.1	2312.9
22.5°	5764.8	4815.7	2835.5	2130.2	2141.9	2181.7	2235.6	2263.7	2249.7	2212.2	2191.1
25°	5708.5	4565.0	2472.3	2017.7	2062.2	2132.5	2174.7	2153.6	2127.8	2106.7	2099.7
27.5°	5706.2	4258.0	2209.8	1914.6	1994.2	2090.3	2076.3	2057.5	2069.2	2052.8	2034.1
30°	5717.9	3960.4	1994.2	1856.0	1945.0	1991.9	2008.3	1989.6	2003.6	1973.1	1982.5
32.5°	5657.0	3669.8	1853.6	1788.0	1886.4	1884.1	1938.0	1952.1	1919.2	1856.0	1865.3
35°	5682.8	3435.4	1734.1	1757.6	1820.8	1820.8	1863.0	1846.6	1759.9	1722.4	1731.8
37.5°	5860.9	3205.8	1675.5	1715.4	1757.6	1776.3	1762.2	1691.9	1670.8	1670.8	1675.5
40°	6029.6	3008.9	1640.4	1706.0	1699.0	1710.7	1607.6	1614.6	1614.6	1616.9	1605.2
42.5°	6179.6	2875.4	1612.3	1649.8	1661.5	1600.5	1537.3	1530.2	1546.6	1544.3	1534.9
45°	6233.5	2765.2	1572.4	1586.5	1595.9	1495.1	1464.6	1450.6	1469.3	1476.3	1485.7
47.5°	6027.2	2673.8	1527.9	1499.8	1481.0	1415.4	1375.6	1349.8	1373.2	1413.1	1422.4
50°	5762.4	2554.3	1457.6	1403.7	1363.9	1335.7	1307.6	1281.8	1298.2	1326.4	1319.3
52.5°	5371.1	2366.8	1368.5	1312.3	1244.3	1251.4	1225.6	1211.5	1220.9	1220.9	1213.9
55°	4813.4	1945.0	1218.6	1178.7	1122.5	1141.2	1145.9	1127.2	1108.4	1124.8	1110.8
57.5°	3285.5	1373.2	1087.3	1087.3	1031.1	1056.9	1054.5	1010.0	965.5	970.2	960.8
60°	1900.5	1094.4	1003.0	993.6	935.0	956.1	960.8	930.3	862.4	867.1	857.7
62.5°	1080.3	935.0	876.4	862.4	850.7	869.4	869.4	829.6	771.0	775.7	766.3
65°	918.6	867.1	782.7	780.4	775.7	780.4	761.6	719.4	667.9	646.8	649.1
67.5°	834.3	801.4	719.4	698.3	684.3	681.9	646.8	606.9	583.5	564.8	562.4
70°	731.1	705.4	644.4	616.3	602.3	569.4	534.3	508.5	475.7	466.3	475.7
72.5°	578.8	576.5	553.0	522.6	492.1	466.3	435.9	400.7	370.3	363.2	346.8
75°	400.7	405.4	410.1	405.4	379.6	346.8	311.7	283.6	246.1	225.0	220.3
77.5°	262.5	269.5	276.5	267.1	250.7	220.3	196.8	161.7	133.6	117.2	114.8
80°	192.2	201.5	206.2	199.2	180.4	157.0	131.2	103.1	82.0	68.0	68.0
82.5°	147.6	157.0	161.7	150.0	131.2	112.5	93.7	72.6	56.2	44.5	42.2
85°	51.6	49.2	58.6	60.9	72.6	68.0	56.2	42.2	32.8	23.4	21.1
87.5°	14.1	14.1	16.4	16.4	14.1	11.7	11.7	11.7	9.4	7.0	7.0
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)