

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: P530204

Luminaire Tested: **GALN-SA5B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530204
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-SA5B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 20433 lumens
Efficiency: N/A
Efficacy: 100.2 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): 204
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



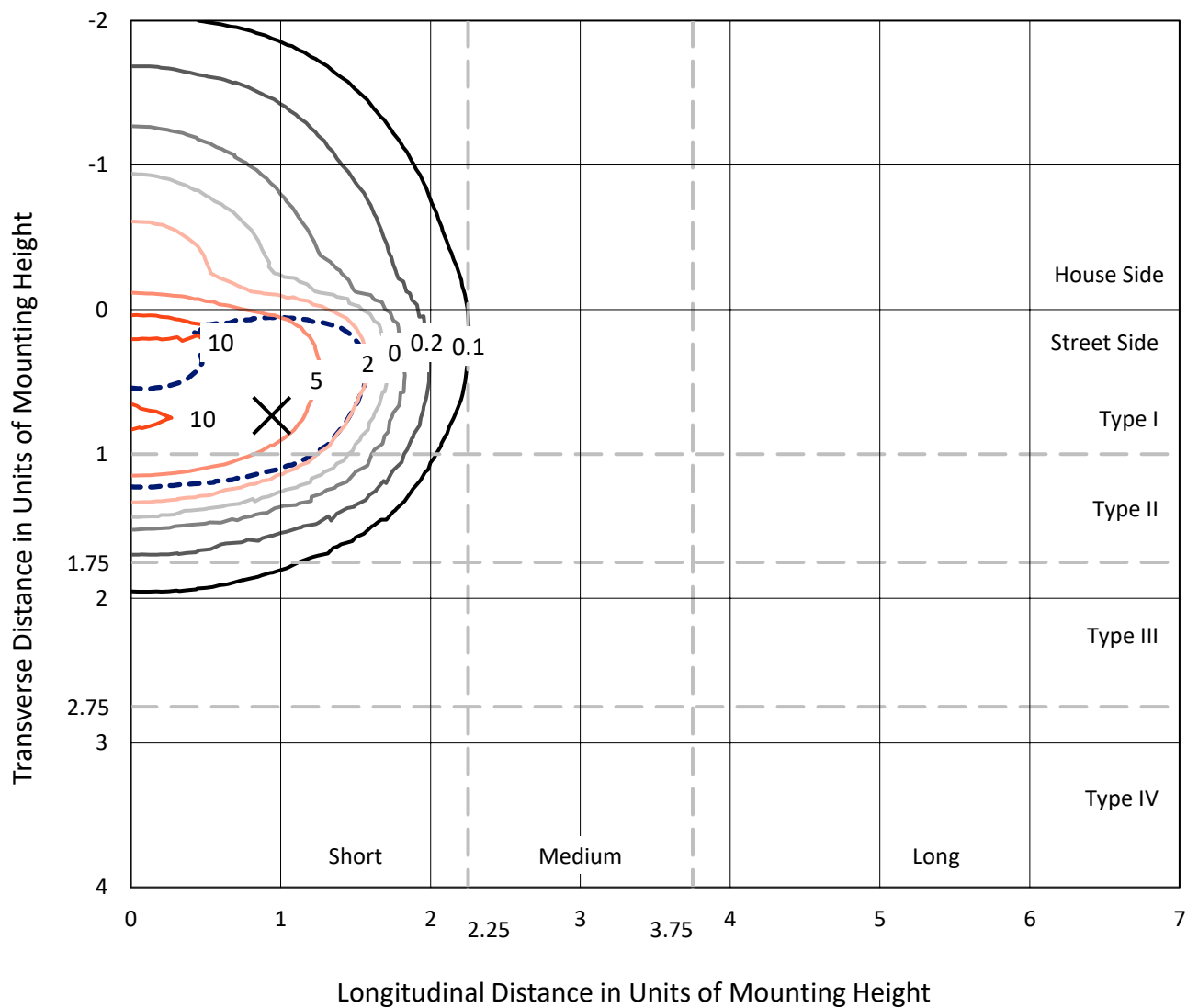
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

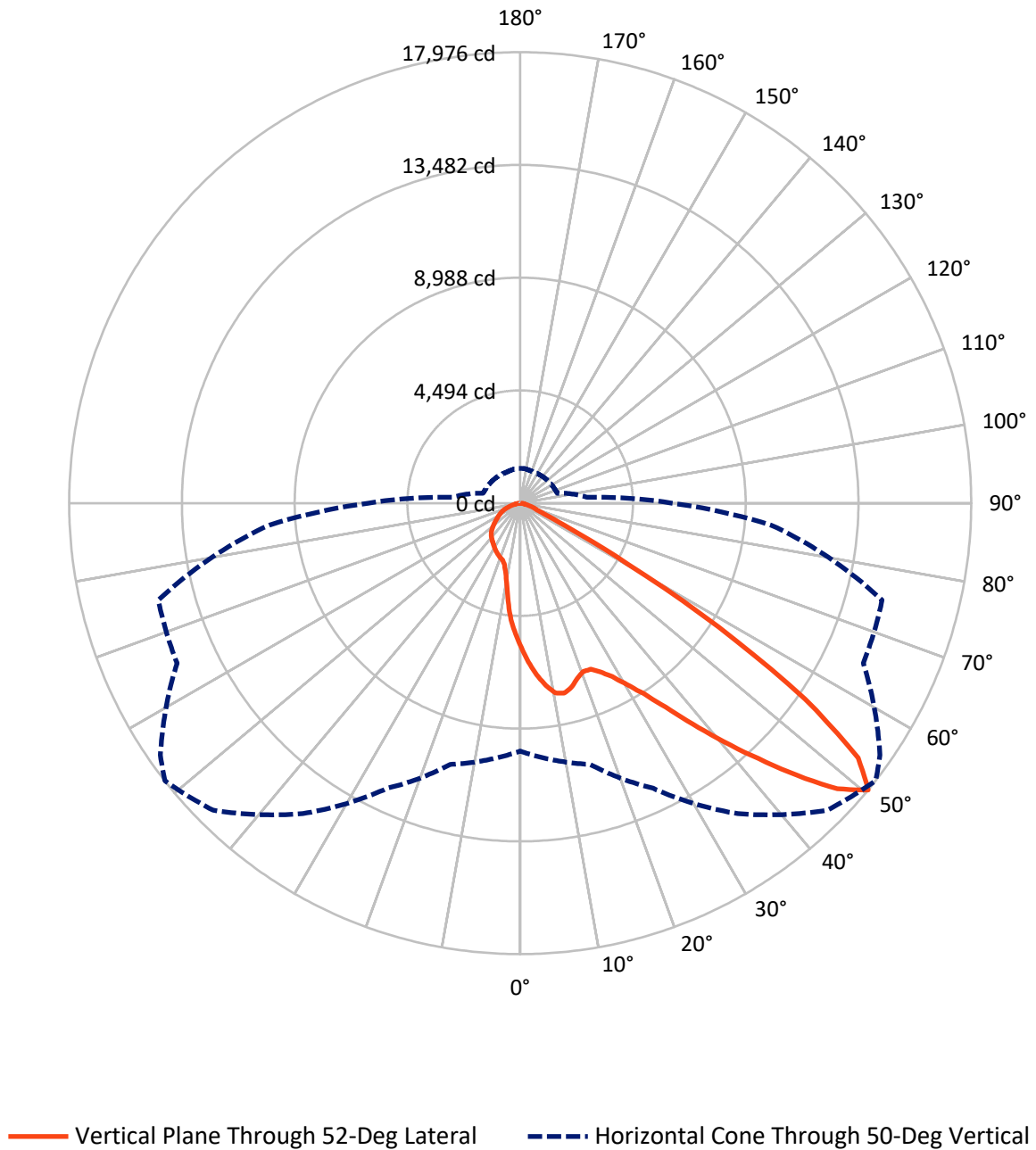


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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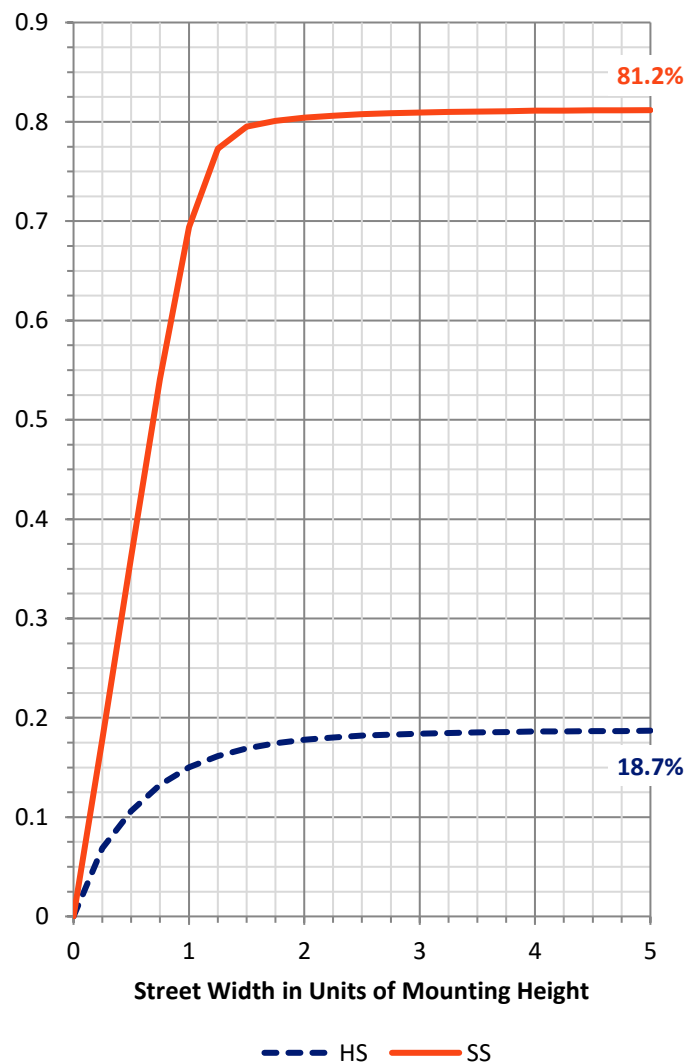
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3840.9	0.0	3840.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16592.1	0.0	16592.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	20433.0	0.0	20433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.9	2.6
10°-20°	1422.9	7.0
20°-30°	2396.8	11.7
30°-40°	4022.0	19.7
40°-50°	6152.6	30.1
50°-60°	4485.8	22.0
60°-70°	998.3	4.9
70°-80°	360.1	1.8
80°-90°	63.7	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°	20433.0	100.0
0°-180°	20433.0	100.0

Coefficient of Utilization



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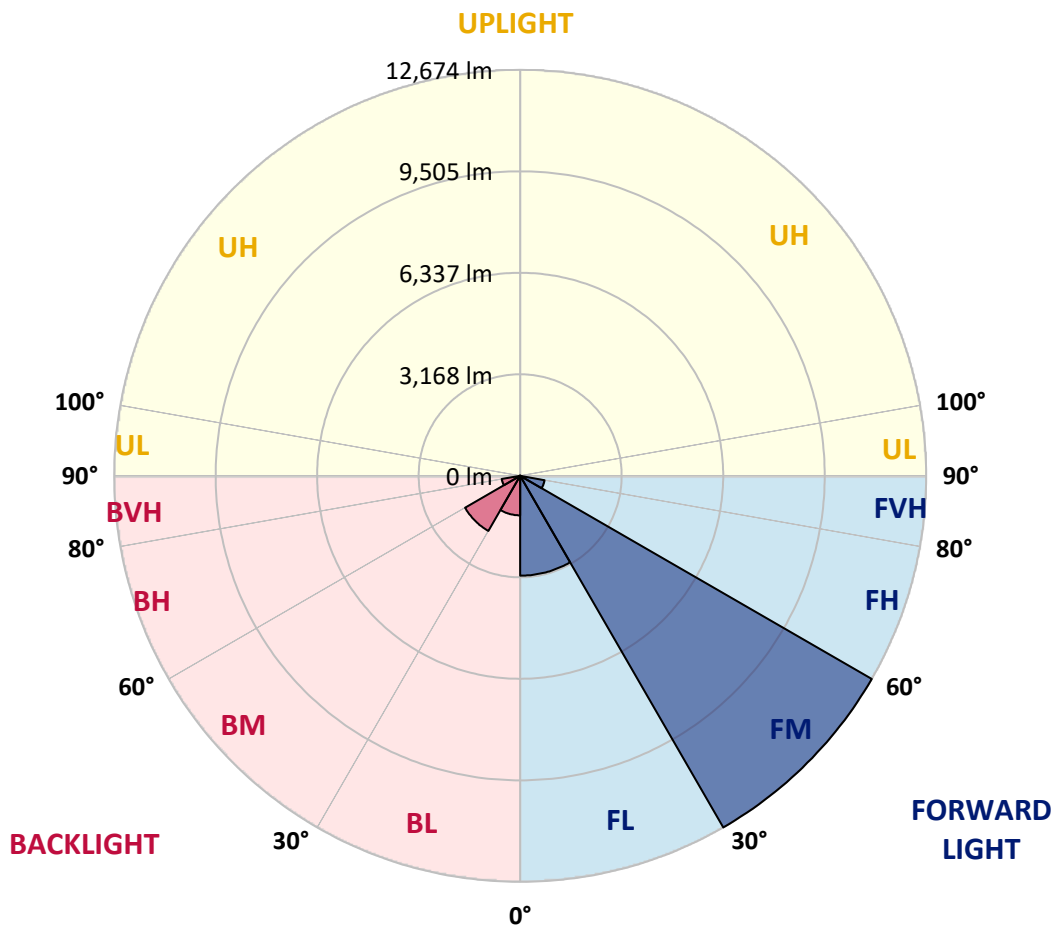
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3116.7	15.3			
FM	(30°-60°)	12673.6	62.0			
FH	(60°-80°)	773.2	3.8			G1/1800
FVH	(80°-90°)	28.6	0.1			G1/100
BL	(0°-30°)	1233.8	6.0	B3/2500		
BM	(30°-60°)	1986.8	9.7	B2/2500		
BH	(60°-80°)	585.2	2.9	B2/1000		G2/1000
BVH	(80°-90°)	35.2	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°	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7
2.5°	6781.7	6651.1	6665.9	6572.3	6471.4	6441.8	6338.4	6239.9	6166.0	6008.4	5863.1
5°	7412.0	7372.6	7313.5	7239.7	7163.3	6976.2	6870.3	6747.2	6476.3	6232.5	5991.2
7.5°	7503.2	7495.8	7527.8	7527.8	7554.9	7483.5	7333.2	7247.1	6958.9	6562.5	6114.3
10°	6862.9	6885.1	7040.2	7242.1	7522.9	7717.4	7692.8	7670.6	7355.4	6813.7	6259.6
12.5°	6353.2	6303.9	6395.0	6567.4	6988.5	7458.8	7776.5	7779.0	7697.7	7215.0	6365.5
15°	6065.1	6099.5	6124.2	6205.4	6523.1	7067.3	7626.3	7791.3	8148.3	7498.2	6532.9
17.5°	6249.8	6134.0	6129.1	6148.8	6311.3	6720.1	7348.0	7631.2	8394.6	7862.7	6739.8
20°	6491.1	6488.6	6419.7	6395.0	6392.6	6757.0	7165.8	7549.9	8525.1	8335.5	6949.1
22.5°	6914.6	6914.6	6801.3	6747.2	6631.4	6929.4	7190.4	7451.4	8741.8	8660.5	7050.1
25°	7623.8	7508.1	7313.5	7180.6	7114.1	7220.0	7451.4	7685.4	8931.4	9005.3	7259.4
27.5°	8278.8	8096.6	8000.6	7771.6	7682.9	7621.4	7833.1	8069.5	9153.0	9542.1	7372.6
30°	9022.5	8990.5	8818.1	8522.6	8303.5	8190.2	8384.7	8618.7	9559.3	10091.2	7633.7
32.5°	10352.2	10061.7	9827.7	9465.7	9108.7	8867.4	9059.4	9214.6	10234.0	10665.0	7919.3
35°	11787.9	11694.3	11290.4	10637.9	10091.2	9874.5	9987.8	10103.5	11019.6	11541.6	8399.5
37.5°	13198.9	13070.8	12738.4	12189.2	11524.4	11083.6	11164.9	11300.3	11901.1	12723.6	8985.6
40°	14213.4	14055.8	13888.3	13807.1	13147.1	12543.8	12497.0	12531.5	13093.0	13831.7	9635.7
42.5°	14287.3	14481.8	14533.5	14861.0	14705.9	14210.9	13922.8	13930.2	14230.6	14927.5	10293.1
45°	14132.1	13952.4	14334.1	15227.9	15740.1	15971.6	15486.5	15424.9	14934.9	15562.8	10620.6
47.5°	12504.4	12553.7	13198.9	14612.3	16092.3	17126.5	17013.2	16808.8	15311.7	15540.7	10568.9
50°	9884.4	10182.3	10780.7	12541.4	15107.3	17308.7	17976.1	17503.3	15087.6	14930.0	10042.0
52.5°	6582.2	6705.3	7099.3	9372.2	12147.4	15471.7	16867.9	16976.3	14880.7	14129.7	9374.6
55°	2930.3	2920.5	3474.5	4895.4	7621.4	11773.1	13782.5	14442.4	14085.3	13314.6	8724.5
57.5°	1241.1	1282.9	1509.5	2115.3	3747.9	7104.2	9337.7	9916.4	10832.4	10933.4	6693.0
60°	839.7	844.6	906.2	1058.9	1568.6	3336.7	4897.9	5592.3	6247.3	6203.0	3550.9
62.5°	659.9	677.2	724.0	785.5	930.8	1514.4	2191.6	2578.2	2620.1	2203.9	1347.0
65°	563.9	566.4	613.2	664.9	728.9	881.6	1056.4	1076.1	1088.4	1049.0	989.9
67.5°	465.4	470.3	507.3	566.4	625.5	674.7	724.0	748.6	805.2	916.0	901.3
70°	369.4	376.8	408.8	458.0	512.2	541.7	603.3	625.5	677.2	763.4	797.8
72.5°	280.7	283.2	310.3	344.7	394.0	423.5	475.3	499.9	534.4	608.2	640.2
75°	201.9	209.3	229.0	246.2	253.6	273.3	322.6	349.7	398.9	430.9	433.4
77.5°	105.9	110.8	115.7	115.7	140.4	177.3	209.3	224.1	258.6	283.2	270.9
80°	41.9	44.3	56.6	76.3	98.5	128.0	150.2	157.6	187.1	201.9	209.3
82.5°	24.6	27.1	36.9	54.2	71.4	91.1	108.3	115.7	135.4	152.7	157.6
85°	12.3	14.8	22.2	34.5	46.8	56.6	54.2	51.7	51.7	49.2	51.7
87.5°	4.9	4.9	7.4	7.4	7.4	9.8	12.3	12.3	12.3	14.8	14.8
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°	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7	5759.7
2.5°	5767.1	5668.6	5577.5	5410.1	5227.8	5176.1	4964.3	4888.0	4833.8	4769.8	4750.1
5°	5796.7	5666.1	5373.1	5035.8	4767.3	4422.6	4196.1	3952.3	3775.0	3730.6	3718.3
7.5°	5858.2	5634.1	5129.3	4619.6	4070.5	3602.6	3245.5	3053.5	2883.6	2873.7	2856.5
10°	5927.2	5538.1	4863.4	4063.1	3361.3	2927.9	2713.6	2629.9	2588.1	2578.2	2573.3
12.5°	5983.8	5518.4	4565.4	3521.3	2858.9	2597.9	2533.9	2526.5	2543.7	2548.7	2558.5
15°	6008.4	5439.6	4205.9	3036.2	2546.2	2450.2	2477.2	2506.8	2519.1	2551.1	2526.5
17.5°	6055.2	5338.6	3762.7	2652.1	2371.4	2388.6	2435.4	2469.9	2489.6	2511.7	2479.7
20°	6079.8	5247.5	3346.5	2423.1	2309.8	2341.8	2405.8	2432.9	2457.5	2467.4	2430.5
22.5°	6057.7	5060.4	2979.6	2238.4	2250.7	2292.6	2349.2	2378.7	2364.0	2324.6	2302.4
25°	5998.6	4796.9	2597.9	2120.2	2167.0	2240.9	2285.2	2263.0	2235.9	2213.8	2206.4
27.5°	5996.1	4474.3	2322.1	2011.8	2095.6	2196.5	2181.8	2162.1	2174.4	2157.1	2137.4
30°	6008.4	4161.6	2095.6	1950.3	2043.9	2093.1	2110.3	2090.6	2105.4	2073.4	2083.3
32.5°	5944.4	3856.2	1947.8	1878.9	1982.3	1979.8	2036.5	2051.2	2016.8	1950.3	1960.1
35°	5971.5	3610.0	1822.2	1846.9	1913.3	1913.3	1957.7	1940.4	1849.3	1809.9	1819.8
37.5°	6158.6	3368.7	1760.7	1802.5	1846.9	1866.6	1851.8	1777.9	1755.7	1755.7	1760.7
40°	6335.9	3161.8	1723.7	1792.7	1785.3	1797.6	1689.3	1696.6	1696.6	1699.1	1686.8
42.5°	6493.5	3021.5	1694.2	1733.6	1745.9	1681.9	1615.4	1608.0	1625.2	1622.8	1612.9
45°	6550.2	2905.7	1652.3	1667.1	1676.9	1571.1	1539.0	1524.3	1544.0	1551.4	1561.2
47.5°	6333.5	2809.7	1605.5	1576.0	1556.3	1487.3	1445.5	1418.4	1443.0	1484.9	1494.7
50°	6055.2	2684.1	1531.7	1475.0	1433.2	1403.6	1374.1	1347.0	1364.2	1393.8	1386.4
52.5°	5644.0	2487.1	1438.1	1379.0	1307.6	1315.0	1287.9	1273.1	1282.9	1282.9	1275.6
55°	5057.9	2043.9	1280.5	1238.6	1179.5	1199.2	1204.1	1184.4	1164.7	1182.0	1167.2
57.5°	3452.4	1443.0	1142.6	1142.6	1083.5	1110.6	1108.1	1061.3	1014.5	1019.5	1009.6
60°	1997.1	1150.0	1053.9	1044.1	982.5	1004.7	1009.6	977.6	906.2	911.1	901.3
62.5°	1135.2	982.5	921.0	906.2	893.9	913.6	913.6	871.7	810.2	815.1	805.2
65°	965.3	911.1	822.5	820.0	815.1	820.0	800.3	756.0	701.8	679.6	682.1
67.5°	876.6	842.2	756.0	733.8	719.0	716.6	679.6	637.8	613.2	593.5	591.0
70°	768.3	741.2	677.2	647.6	632.9	598.4	561.4	534.4	499.9	490.0	499.9
72.5°	608.2	605.8	581.1	549.1	517.1	490.0	458.0	421.1	389.1	381.7	364.4
75°	421.1	426.0	430.9	426.0	398.9	364.4	327.5	298.0	258.6	236.4	231.5
77.5°	275.8	283.2	290.6	280.7	263.5	231.5	206.8	169.9	140.4	123.1	120.7
80°	201.9	211.8	216.7	209.3	189.6	165.0	137.9	108.3	86.2	71.4	71.4
82.5°	155.1	165.0	169.9	157.6	137.9	118.2	98.5	76.3	59.1	46.8	44.3
85°	54.2	51.7	61.6	64.0	76.3	71.4	59.1	44.3	34.5	24.6	22.2
87.5°	14.8	14.8	17.2	17.2	14.8	12.3	12.3	12.3	9.8	7.4	7.4
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)