

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: P529735

Luminaire Tested: **GALN-SA4D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18141 lumens
Efficiency: N/A
Efficacy: 74.0 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): 245
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

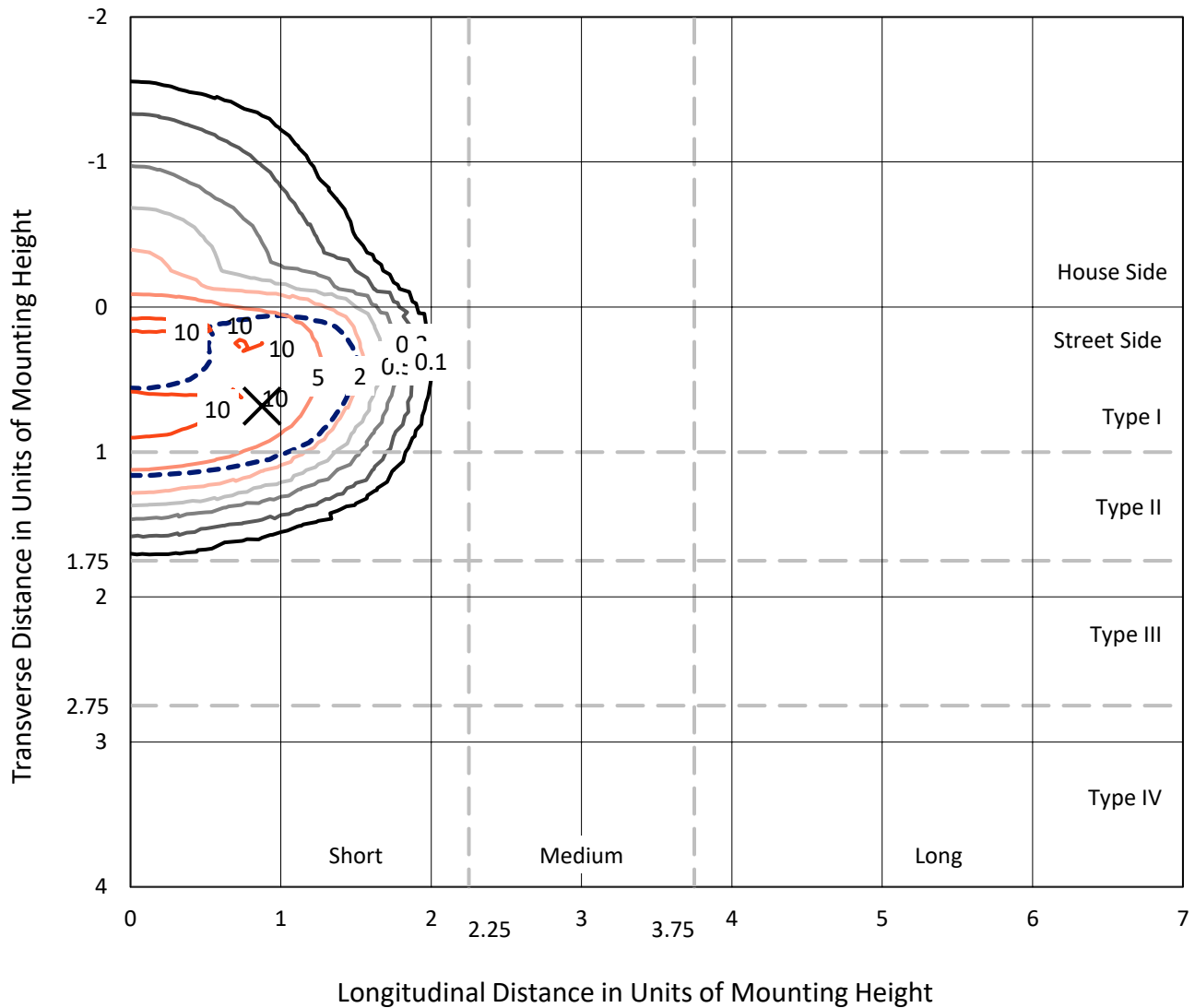


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

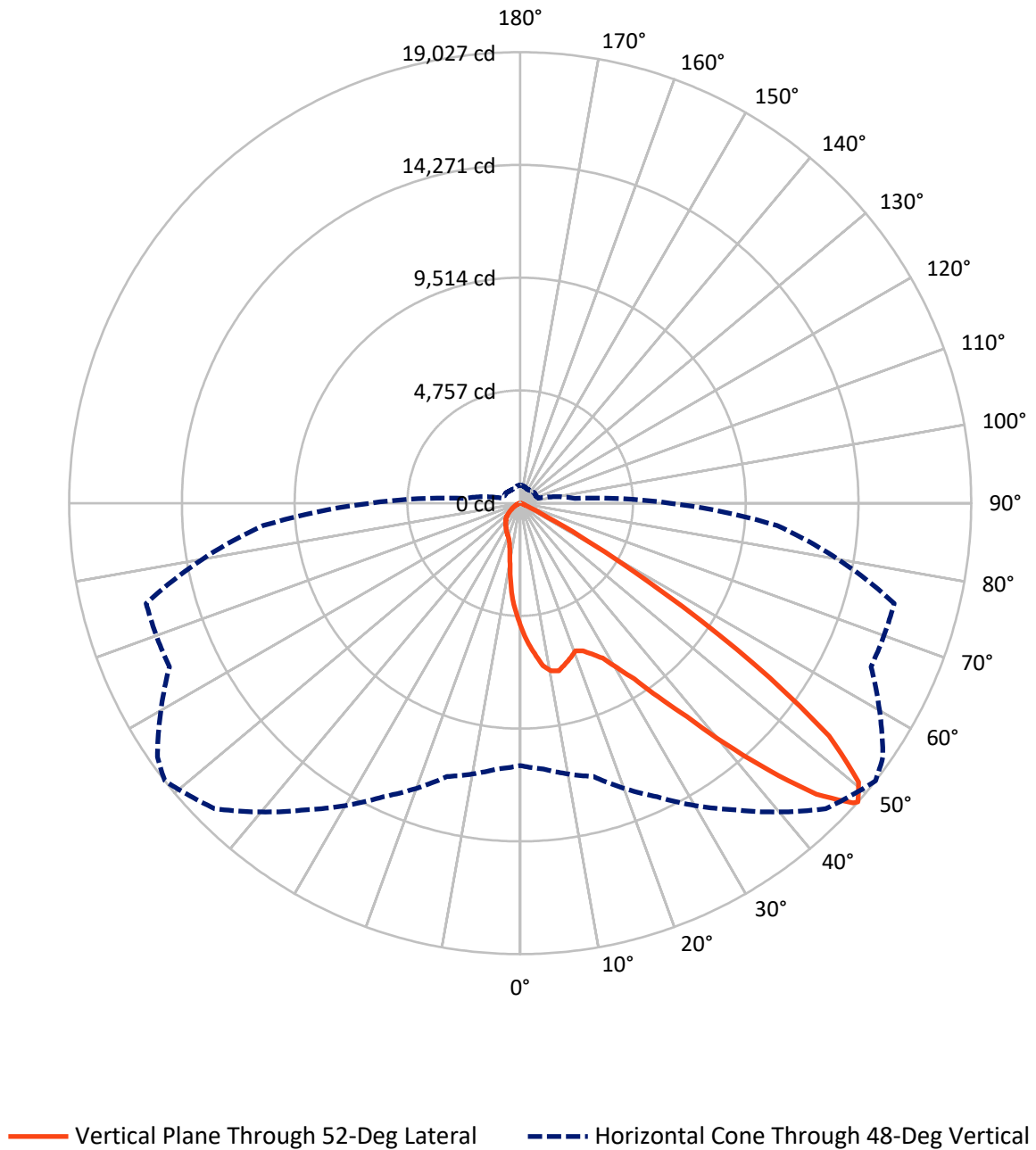


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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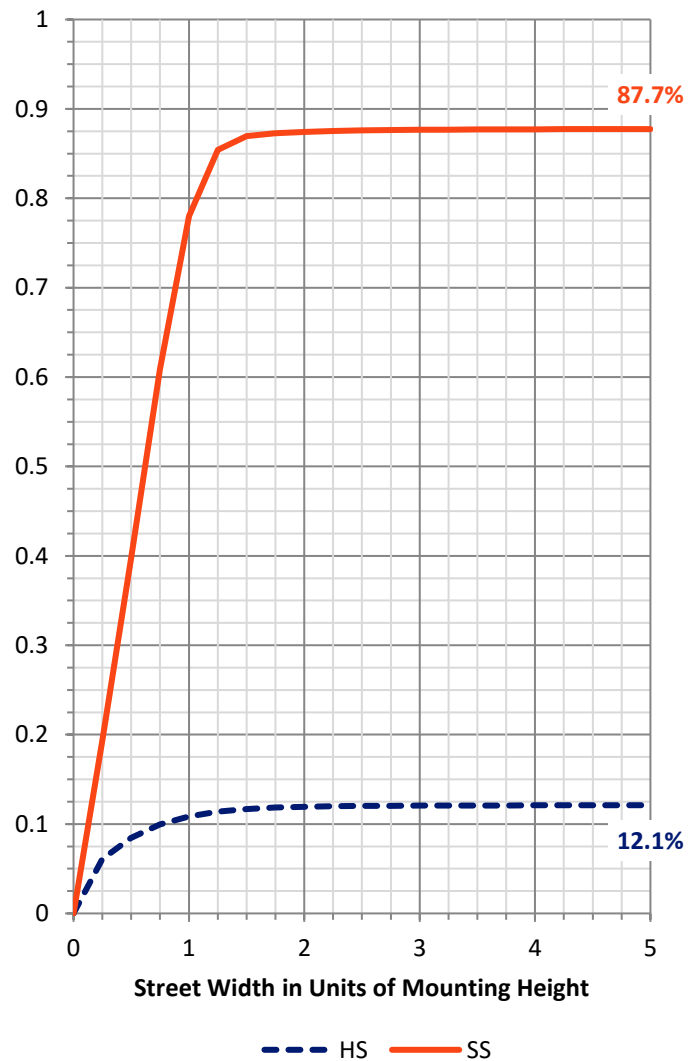
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.8	0.0	2208.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15932.2	0.0	15932.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	18141.0	0.0	18141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	2.6
10°-20°	1253.1	6.9
20°-30°	2139.6	11.8
30°-40°	3940.0	21.7
40°-50°	6118.8	33.7
50°-60°	3682.5	20.3
60°-70°	425.9	2.3
70°-80°	82.4	0.5
80°-90°	19.1	0.1
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°	18141.0	100.0
0°-180°	18141.0	100.0

Coefficient of Utilization



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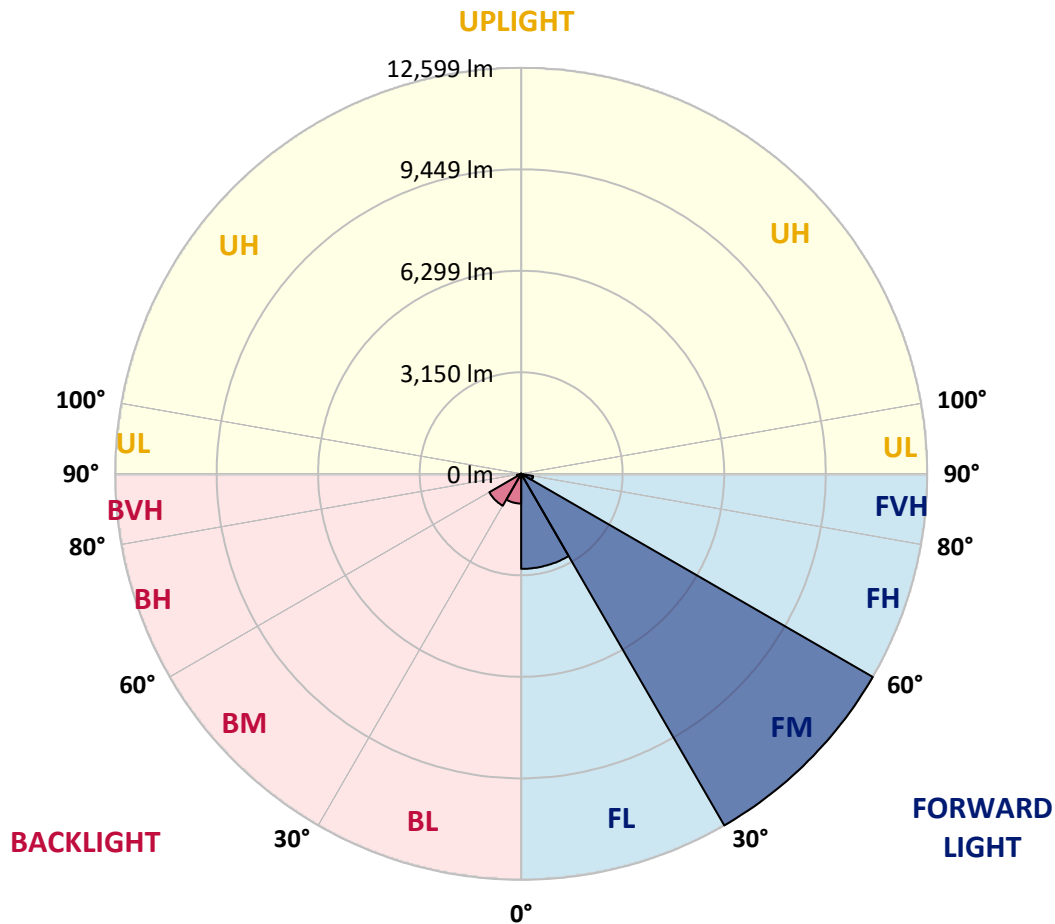
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2949.5	16.3			
FM	(30°-60°)	12598.6	69.4			
FH	(60°-80°)	375.1	2.1			G0/660
FVH	(80°-90°)	9.1	0.0			G0/10
BL	(0°-30°)	922.7	5.1	B2/1000		
BM	(30°-60°)	1142.8	6.3	B2/2500		
BH	(60°-80°)	133.3	0.7	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G0/10
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°	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8
2.5°	6349.5	6204.1	6217.3	6122.1	6066.6	5976.6	5855.0	5831.2	5699.0	5519.1	5336.7
5°	6920.7	6886.4	6931.3	6793.8	6799.1	6651.0	6365.4	6370.7	6066.6	5773.0	5490.1
7.5°	6957.8	6878.4	6923.4	7045.0	7116.4	7090.0	6928.7	6788.5	6500.3	6069.2	5656.7
10°	6230.5	6381.3	6428.9	6629.8	6915.5	7216.9	7198.4	7206.4	6965.7	6402.4	5799.5
12.5°	5794.2	5693.7	5855.0	5976.6	6407.7	6992.1	7259.2	7317.4	7335.9	6725.0	5942.3
15°	5595.8	5595.8	5622.3	5656.7	5968.7	6508.2	7053.0	7222.2	7621.5	7148.2	6167.1
17.5°	5720.1	5714.8	5751.9	5680.5	5796.8	6212.0	6862.6	7055.6	7941.5	7563.4	6344.2
20°	6098.3	6116.8	6093.0	5886.7	5894.7	6206.7	6651.0	6955.1	8158.4	7923.0	6579.6
22.5°	6624.6	6635.1	6500.3	6275.5	6209.4	6362.7	6772.6	7005.4	8332.9	8354.1	6651.0
25°	7232.8	7190.5	7164.0	6846.7	6645.7	6777.9	7047.7	7182.6	8441.3	8724.3	6854.6
27.5°	8076.4	7991.8	7830.5	7547.5	7399.4	7211.6	7404.7	7626.8	8750.8	9242.6	7076.8
30°	9322.0	9247.9	8933.2	8568.3	8179.5	7994.4	8055.2	8176.9	9308.8	9843.0	7370.3
32.5°	11197.0	11040.9	10586.1	9890.6	9361.6	8851.3	8835.4	8965.0	9808.6	10673.3	7719.4
35°	13262.3	13214.7	12545.7	11829.0	10805.6	10017.5	10030.7	10099.5	10765.9	11762.9	8176.9
37.5°	14634.8	14896.7	14470.9	13701.3	12841.9	11715.3	11429.7	11453.5	12080.2	13053.4	9002.0
40°	15695.3	15473.2	15523.4	15343.6	14756.5	13989.6	13357.5	13233.2	13600.8	14481.5	9821.8
42.5°	15232.5	15243.1	15552.5	15978.3	16123.7	16068.2	15422.9	15187.6	14901.9	15650.3	10601.9
45°	13926.1	14198.5	14600.5	15727.0	16716.1	17644.3	17517.4	17126.0	15801.1	16575.9	11051.5
47.5°	11842.2	11831.6	12490.1	13955.2	16152.8	18326.6	18903.1	18628.1	16438.4	16472.8	10958.9
48°	11072.7	11263.1	11942.7	13666.9	15795.8	18226.1	19027.4	18681.0	16330.0	16335.3	10879.6
50°	8184.8	8150.5	8996.7	11112.3	14108.6	17126.0	18503.8	18773.5	16327.3	15639.8	10324.3
52.5°	4323.8	4471.9	5088.1	6986.9	9975.2	14016.0	16322.1	16742.5	15750.8	14502.6	9525.6
55°	1838.0	1660.8	2134.1	3154.9	5611.7	9364.3	11974.4	12910.6	13317.9	12833.9	8332.9
57.5°	655.8	716.7	825.1	1187.4	2358.9	5125.1	7140.2	7867.5	9226.8	9417.2	5677.8
60°	420.5	428.4	462.8	544.8	885.9	1975.5	3387.6	3966.8	4583.0	4731.1	2649.8
62.5°	325.3	327.9	343.8	357.0	420.5	766.9	1272.0	1507.4	1565.6	1346.1	695.5
65°	272.4	275.0	280.3	280.3	298.8	359.7	444.3	489.2	476.0	470.7	394.0
67.5°	208.9	214.2	224.8	224.8	235.4	219.5	245.9	261.8	296.2	359.7	335.9
70°	164.0	166.6	174.5	179.8	179.8	158.7	177.2	193.1	216.9	267.1	264.5
72.5°	126.9	132.2	137.5	137.5	129.6	108.4	126.9	140.2	156.0	185.1	179.8
75°	97.8	97.8	100.5	82.0	63.5	55.5	76.7	92.6	116.4	121.6	100.5
77.5°	26.4	29.1	26.4	23.8	26.4	39.7	50.2	58.2	74.0	74.0	66.1
80°	0.0	2.6	7.9	15.9	26.4	37.0	45.0	50.2	58.2	63.5	60.8
82.5°	0.0	2.6	7.9	15.9	23.8	29.1	39.7	42.3	47.6	55.5	55.5
85°	0.0	2.6	5.3	10.6	15.9	18.5	18.5	15.9	15.9	13.2	10.6
87.5°	0.0	0.0	2.6	5.3	5.3	7.9	7.9	7.9	7.9	7.9	7.9
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°	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8
2.5°	5265.3	5183.3	5059.0	4863.3	4675.5	4553.9	4437.5	4307.9	4236.5	4231.3	4191.6
5°	5328.7	5143.6	4847.4	4511.6	4151.9	3842.5	3530.5	3326.8	3144.3	3043.9	3025.3
7.5°	5363.1	5122.5	4643.8	4080.5	3467.0	2961.9	2612.8	2356.3	2255.8	2181.7	2179.1
10°	5434.5	5085.4	4339.7	3509.3	2750.3	2239.9	1999.3	1882.9	1827.4	1806.2	1774.5
12.5°	5487.4	5016.7	4027.6	2922.2	2173.8	1856.5	1750.7	1724.2	1726.9	1737.5	1724.2
15°	5561.5	4955.9	3607.1	2398.6	1824.7	1671.3	1671.3	1676.6	1713.7	1718.9	1716.3
17.5°	5556.2	4836.9	3173.4	1975.5	1613.2	1592.0	1599.9	1650.2	1674.0	1681.9	1663.4
20°	5619.6	4725.8	2726.5	1687.2	1494.2	1525.9	1578.8	1592.0	1621.1	1626.4	1605.2
22.5°	5601.1	4448.1	2311.3	1459.8	1404.2	1465.1	1518.0	1533.8	1525.9	1510.0	1507.4
25°	5566.7	4210.1	1930.5	1309.0	1338.1	1404.2	1454.5	1425.4	1409.5	1412.2	1414.8
27.5°	5505.9	3908.6	1615.8	1203.3	1248.2	1346.1	1343.4	1332.8	1348.7	1335.5	1348.7
30°	5495.3	3607.1	1356.6	1108.1	1182.1	1253.5	1258.8	1277.3	1295.8	1272.0	1295.8
32.5°	5511.2	3276.6	1171.5	1049.9	1142.4	1145.1	1203.3	1221.8	1208.6	1155.7	1160.9
35°	5632.9	3022.7	1036.7	1018.1	1079.0	1081.6	1137.1	1113.3	1055.2	1023.4	1041.9
37.5°	5889.4	2811.1	973.2	989.1	994.3	1028.7	1031.4	983.8	989.1	986.4	997.0
40°	6217.3	2649.8	928.2	962.6	957.3	981.1	885.9	912.4	936.2	944.1	949.4
42.5°	6442.1	2533.5	899.1	920.3	909.7	867.4	814.5	841.0	859.5	888.6	893.9
45°	6542.6	2440.9	864.8	846.3	846.3	769.6	748.4	753.7	796.0	827.7	822.4
47.5°	6378.6	2351.0	803.9	748.4	766.9	703.4	679.6	679.6	724.6	764.3	756.3
48°	6315.1	2314.0	806.6	727.2	740.5	692.9	669.1	663.8	714.0	751.0	751.0
50°	6000.4	2176.5	737.8	669.1	642.6	637.3	621.5	626.8	658.5	692.9	692.9
52.5°	5386.9	1880.3	624.1	573.9	526.3	558.0	565.9	555.4	571.2	603.0	600.3
55°	4495.7	1443.9	499.8	476.0	439.0	473.4	489.2	476.0	460.1	483.9	483.9
57.5°	2879.9	777.5	399.3	404.6	367.6	402.0	415.2	383.5	354.4	372.9	370.2
60°	1298.5	465.4	327.9	320.0	296.2	335.9	357.0	320.0	280.3	293.5	306.8
62.5°	486.6	330.6	248.6	243.3	238.0	275.0	285.6	256.5	216.9	224.8	227.4
65°	357.0	290.9	198.3	179.8	190.4	216.9	211.6	182.5	156.0	156.0	161.3
67.5°	304.1	253.9	161.3	140.2	140.2	142.8	132.2	116.4	108.4	113.7	119.0
70°	238.0	201.0	126.9	108.4	97.8	87.3	76.7	74.0	66.1	74.0	71.4
72.5°	153.4	134.9	97.8	82.0	74.0	60.8	50.2	47.6	39.7	37.0	37.0
75°	82.0	82.0	76.7	66.1	58.2	47.6	39.7	31.7	21.2	15.9	15.9
77.5°	58.2	63.5	68.8	63.5	52.9	39.7	31.7	21.2	10.6	5.3	5.3
80°	55.5	63.5	68.8	60.8	52.9	39.7	29.1	15.9	7.9	2.6	2.6
82.5°	50.2	58.2	63.5	55.5	47.6	34.4	26.4	15.9	7.9	2.6	2.6
85°	10.6	13.2	15.9	15.9	18.5	23.8	18.5	13.2	5.3	2.6	2.6
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3	2.6	2.6	2.6
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)