

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: P528566

Luminaire Tested: **GALN-SA3C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528566
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-SA3C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 15049 lumens
Efficiency: N/A
Efficacy: 94.1 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): 160
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

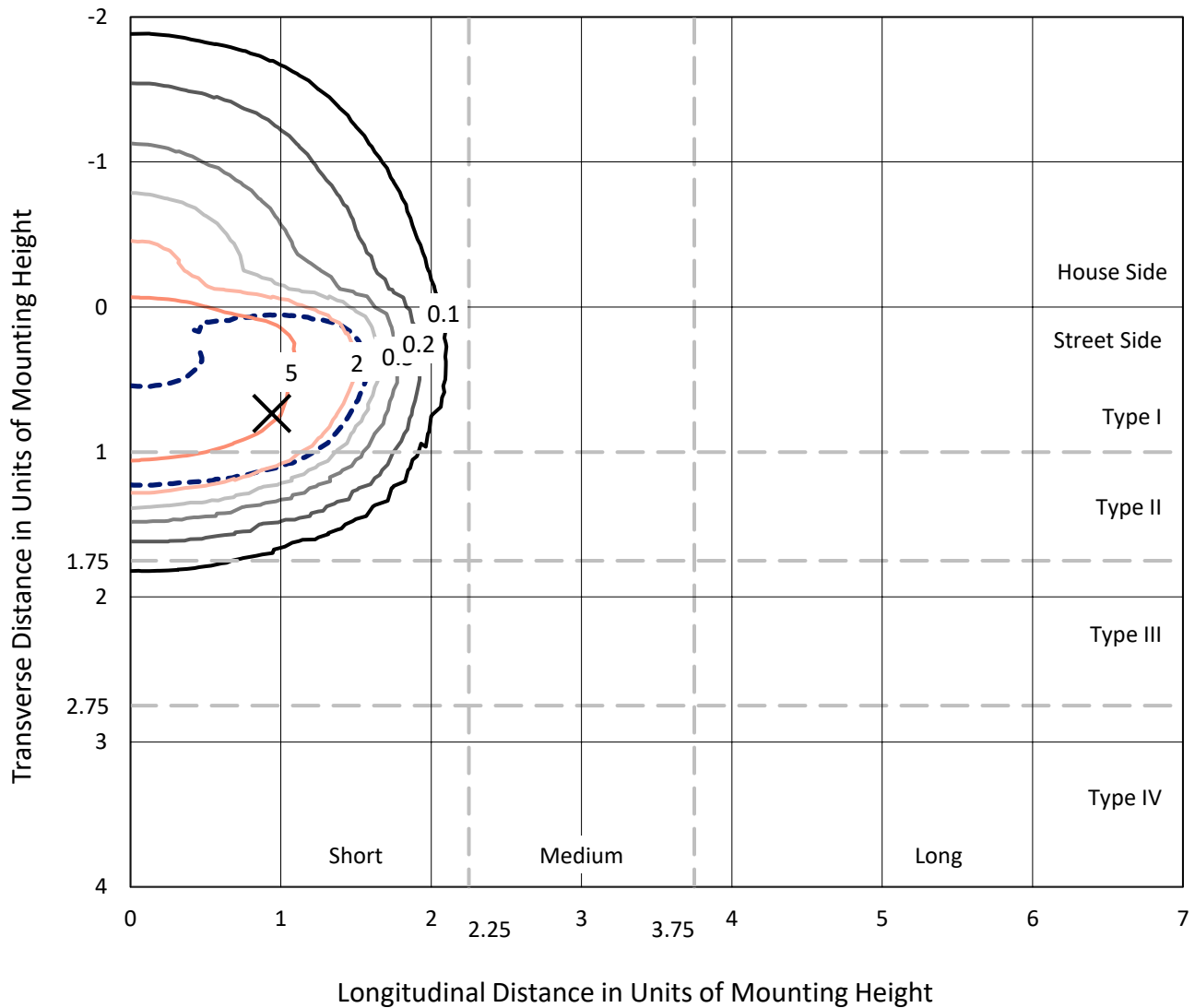


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Iso-Footcandle Lines of Horizontal Illumination

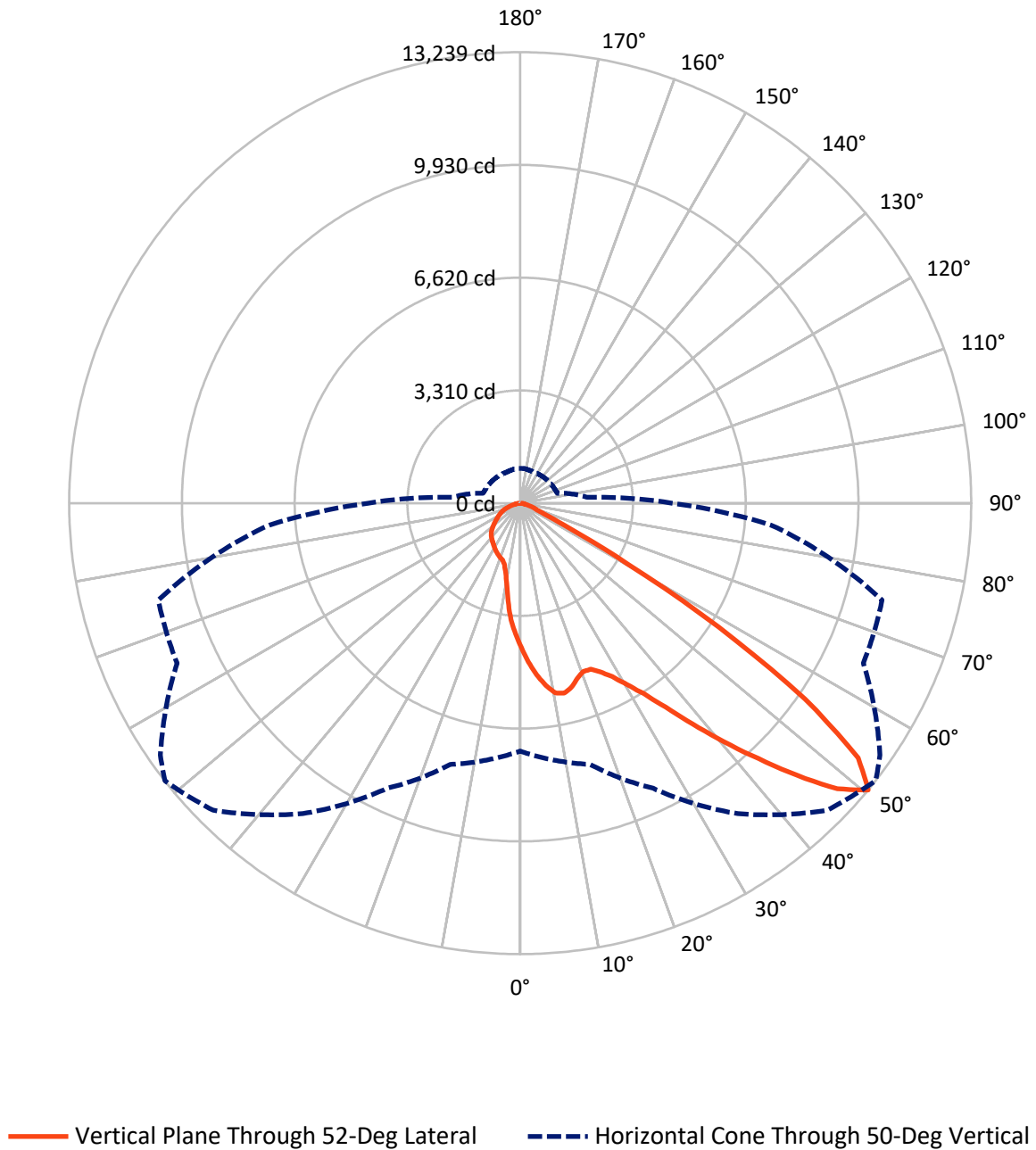
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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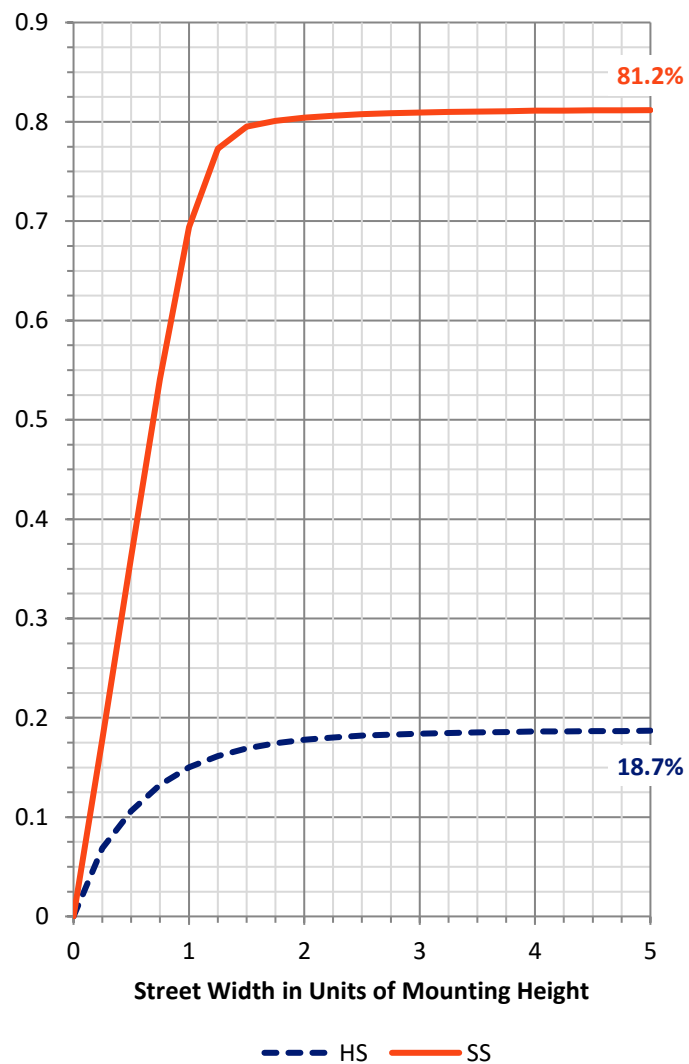
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2828.9	0.0	2828.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12220.1	0.0	12220.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	15049.0	0.0	15049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	2.6
10°-20°	1047.9	7.0
20°-30°	1765.2	11.7
30°-40°	2962.2	19.7
40°-50°	4531.4	30.1
50°-60°	3303.8	22.0
60°-70°	735.3	4.9
70°-80°	265.2	1.8
80°-90°	46.9	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°	15049.0	100.0
0°-180°	15049.0	100.0

Coefficient of Utilization



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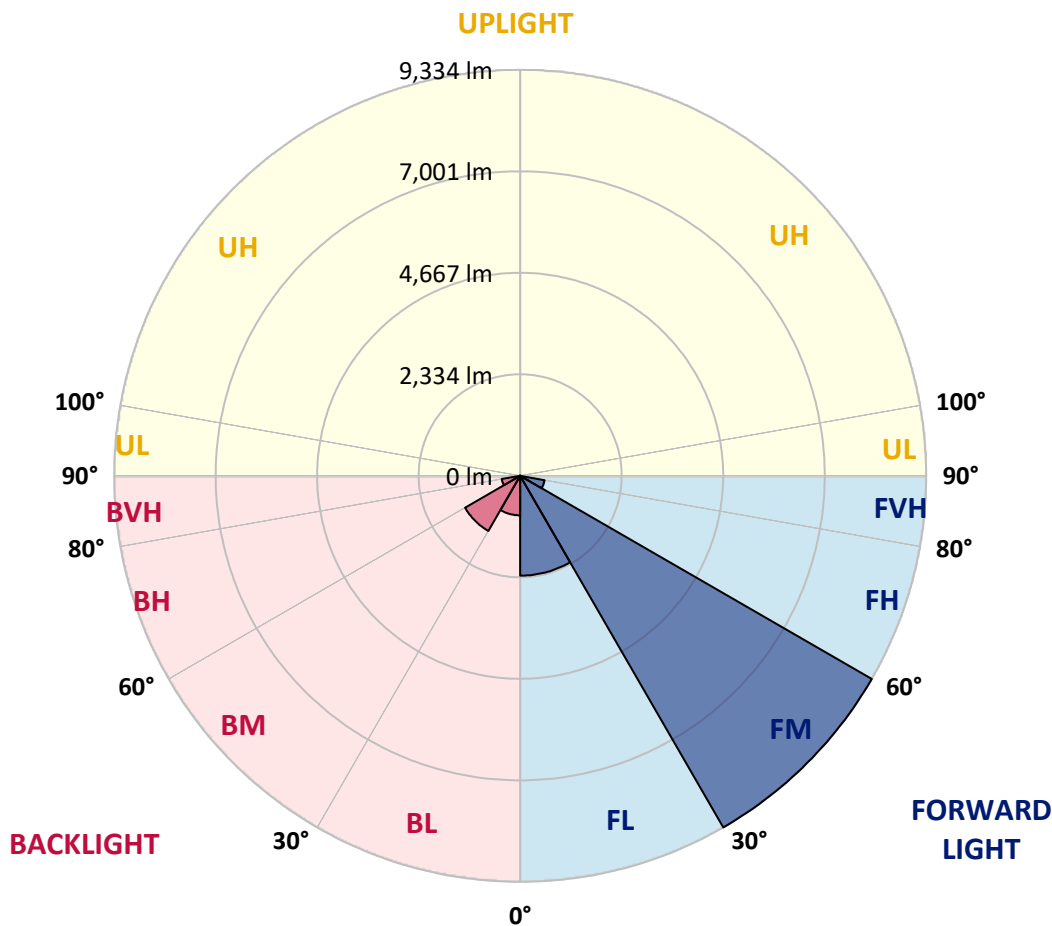
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2295.5	15.3			
FM	(30°-60°)	9334.2	62.0			
FH	(60°-80°)	569.5	3.8			G0/660
FVH	(80°-90°)	21.0	0.1			G1/100
BL	(0°-30°)	908.7	6.0	B2/1000		
BM	(30°-60°)	1463.3	9.7	B2/2500		
BH	(60°-80°)	431.0	2.9	B1/500		G1/500
BVH	(80°-90°)	25.9	0.2			G1/100
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°	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1
2.5°	4994.7	4898.6	4909.5	4840.6	4766.2	4744.4	4668.3	4595.7	4541.3	4425.2	4318.2
5°	5459.0	5430.0	5386.5	5332.1	5275.8	5138.0	5060.0	4969.3	4769.8	4590.3	4412.5
7.5°	5526.1	5520.7	5544.2	5544.2	5564.2	5511.6	5401.0	5337.5	5125.3	4833.3	4503.2
10°	5054.6	5070.9	5185.1	5333.9	5540.6	5683.9	5665.8	5649.4	5417.3	5018.3	4610.2
12.5°	4679.1	4642.9	4710.0	4836.9	5147.1	5493.5	5727.4	5729.2	5669.4	5313.9	4688.2
15°	4467.0	4492.3	4510.5	4570.3	4804.3	5205.1	5616.8	5738.3	6001.3	5522.5	4811.5
17.5°	4603.0	4517.7	4514.1	4528.6	4648.3	4949.4	5411.9	5620.4	6182.6	5790.9	4963.9
20°	4780.7	4778.9	4728.1	4710.0	4708.2	4976.6	5277.6	5560.6	6278.8	6139.1	5118.0
22.5°	5092.7	5092.7	5009.2	4969.3	4884.1	5103.5	5295.8	5488.0	6438.4	6378.5	5192.4
25°	5615.0	5529.7	5386.5	5288.5	5239.6	5317.5	5488.0	5660.3	6578.0	6632.4	5346.6
27.5°	6097.4	5963.2	5892.5	5723.8	5658.5	5613.2	5769.1	5943.2	6741.2	7027.8	5430.0
30°	6645.1	6621.5	6494.6	6276.9	6115.5	6032.1	6175.4	6347.7	7040.5	7432.2	5622.2
32.5°	7624.5	7410.5	7238.2	6971.6	6708.6	6530.9	6672.3	6786.6	7537.4	7854.8	5832.6
35°	8681.8	8612.9	8315.5	7834.9	7432.2	7272.6	7356.1	7441.3	8116.0	8500.4	6186.3
37.5°	9721.0	9626.7	9381.9	8977.4	8487.8	8163.1	8223.0	8322.7	8765.2	9371.0	6617.9
40°	10468.2	10352.2	10228.8	10169.0	9682.9	9238.6	9204.1	9229.5	9643.0	10187.1	7096.7
42.5°	10522.6	10665.9	10704.0	10945.2	10831.0	10466.4	10254.2	10259.7	10480.9	10994.2	7580.9
45°	10408.4	10276.0	10557.1	11215.4	11592.7	11763.2	11405.9	11360.5	10999.6	11462.1	7822.2
47.5°	9209.6	9245.8	9721.0	10762.0	11852.0	12613.7	12530.3	12379.8	11277.1	11445.8	7784.1
50°	7279.9	7499.3	7940.0	9236.8	11126.6	12748.0	13239.4	12891.2	11112.1	10996.0	7396.0
52.5°	4847.8	4938.5	5228.7	6902.6	8946.6	11395.0	12423.3	12503.1	10959.7	10406.6	6904.5
55°	2158.2	2151.0	2559.0	3605.5	5613.2	8670.9	10150.8	10636.9	10373.9	9806.3	6425.7
57.5°	914.1	944.9	1111.8	1557.9	2760.3	5232.3	6877.3	7303.5	7978.1	8052.5	4929.4
60°	618.4	622.1	667.4	779.9	1155.3	2457.5	3607.3	4118.7	4601.2	4568.5	2615.2
62.5°	486.1	498.7	533.2	578.5	685.5	1115.4	1614.1	1898.9	1929.7	1623.2	992.1
65°	415.3	417.1	451.6	489.7	536.8	649.3	778.0	792.6	801.6	772.6	729.1
67.5°	342.8	346.4	373.6	417.1	460.7	496.9	533.2	551.3	593.1	674.7	663.8
70°	272.0	277.5	301.1	337.3	377.2	399.0	444.3	460.7	498.7	562.2	587.6
72.5°	206.8	208.6	228.5	253.9	290.2	311.9	350.0	368.2	393.6	448.0	471.5
75°	148.7	154.2	168.7	181.4	186.8	201.3	237.6	257.5	293.8	317.4	319.2
77.5°	78.0	81.6	85.2	85.2	103.4	130.6	154.2	165.0	190.4	208.6	199.5
80°	30.8	32.6	41.7	56.2	72.5	94.3	110.6	116.1	137.8	148.7	154.2
82.5°	18.1	19.9	27.2	39.9	52.6	67.1	79.8	85.2	99.7	112.4	116.1
85°	9.1	10.9	16.3	25.4	34.5	41.7	39.9	38.1	38.1	36.3	38.1
87.5°	3.6	3.6	5.4	5.4	5.4	7.3	9.1	9.1	9.1	10.9	10.9
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°	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1	4242.1
2.5°	4247.5	4175.0	4107.9	3984.5	3850.3	3812.2	3656.3	3600.0	3560.1	3513.0	3498.5
5°	4269.3	4173.1	3957.3	3708.9	3511.2	3257.3	3090.4	2910.9	2780.3	2747.6	2738.6
7.5°	4314.6	4149.6	3777.8	3402.4	2997.9	2653.3	2390.4	2248.9	2123.8	2116.5	2103.8
10°	4365.4	4078.8	3581.9	2992.5	2475.6	2156.4	1998.6	1936.9	1906.1	1898.9	1895.2
12.5°	4407.1	4064.3	3362.5	2593.5	2105.6	1913.4	1866.2	1860.8	1873.5	1877.1	1884.4
15°	4425.2	4006.3	3097.7	2236.2	1875.3	1804.6	1824.5	1846.3	1855.3	1878.9	1860.8
17.5°	4459.7	3931.9	2771.2	1953.3	1746.5	1759.2	1793.7	1819.1	1833.6	1849.9	1826.3
20°	4477.8	3864.8	2464.7	1784.6	1701.2	1724.8	1771.9	1791.9	1810.0	1817.2	1790.0
22.5°	4461.5	3727.0	2194.5	1648.6	1657.7	1688.5	1730.2	1752.0	1741.1	1712.1	1695.7
25°	4418.0	3532.9	1913.4	1561.5	1596.0	1650.4	1683.0	1666.7	1646.8	1630.4	1625.0
27.5°	4416.2	3295.4	1710.2	1481.7	1543.4	1617.8	1606.9	1592.4	1601.4	1588.7	1574.2
30°	4425.2	3065.0	1543.4	1436.4	1505.3	1541.6	1554.3	1539.8	1550.6	1527.1	1534.3
32.5°	4378.1	2840.1	1434.6	1383.8	1460.0	1458.2	1499.9	1510.7	1485.4	1436.4	1443.6
35°	4398.0	2658.8	1342.1	1360.2	1409.2	1409.2	1441.8	1429.1	1362.0	1333.0	1340.3
37.5°	4535.9	2481.0	1296.7	1327.6	1360.2	1374.7	1363.8	1309.4	1293.1	1293.1	1296.7
40°	4666.5	2328.7	1269.5	1320.3	1314.9	1323.9	1244.1	1249.6	1249.6	1251.4	1242.3
42.5°	4782.5	2225.3	1247.8	1276.8	1285.9	1238.7	1189.7	1184.3	1197.0	1195.2	1187.9
45°	4824.2	2140.1	1216.9	1227.8	1235.1	1157.1	1133.5	1122.6	1137.1	1142.6	1149.8
47.5°	4664.6	2069.3	1182.5	1160.7	1146.2	1095.4	1064.6	1044.6	1062.8	1093.6	1100.9
50°	4459.7	1976.8	1128.1	1086.4	1055.5	1033.8	1012.0	992.1	1004.7	1026.5	1021.1
52.5°	4156.8	1831.8	1059.2	1015.6	963.0	968.5	948.5	937.6	944.9	944.9	939.5
55°	3725.2	1505.3	943.1	912.3	868.7	883.2	886.9	872.4	857.8	870.5	859.7
57.5°	2542.7	1062.8	841.5	841.5	798.0	817.9	816.1	781.7	747.2	750.8	743.6
60°	1470.8	847.0	776.2	769.0	723.6	740.0	743.6	720.0	667.4	671.0	663.8
62.5°	836.1	723.6	678.3	667.4	658.3	672.9	672.9	642.0	596.7	600.3	593.1
65°	710.9	671.0	605.7	603.9	600.3	603.9	589.4	556.8	516.9	500.6	502.4
67.5°	645.6	620.3	556.8	540.5	529.6	527.8	500.6	469.7	451.6	437.1	435.3
70°	565.9	545.9	498.7	477.0	466.1	440.7	413.5	393.6	368.2	360.9	368.2
72.5°	448.0	446.2	428.0	404.4	380.9	360.9	337.3	310.1	286.6	281.1	268.4
75°	310.1	313.8	317.4	313.8	293.8	268.4	241.2	219.4	190.4	174.1	170.5
77.5°	203.1	208.6	214.0	206.8	194.1	170.5	152.3	125.1	103.4	90.7	88.9
80°	148.7	156.0	159.6	154.2	139.6	121.5	101.6	79.8	63.5	52.6	52.6
82.5°	114.3	121.5	125.1	116.1	101.6	87.1	72.5	56.2	43.5	34.5	32.6
85°	39.9	38.1	45.3	47.2	56.2	52.6	43.5	32.6	25.4	18.1	16.3
87.5°	10.9	10.9	12.7	12.7	10.9	9.1	9.1	9.1	7.3	5.4	5.4
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)