

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: P532310

Luminaire Tested: **GALN-SA7C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532310
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-SA7C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35112 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 377
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



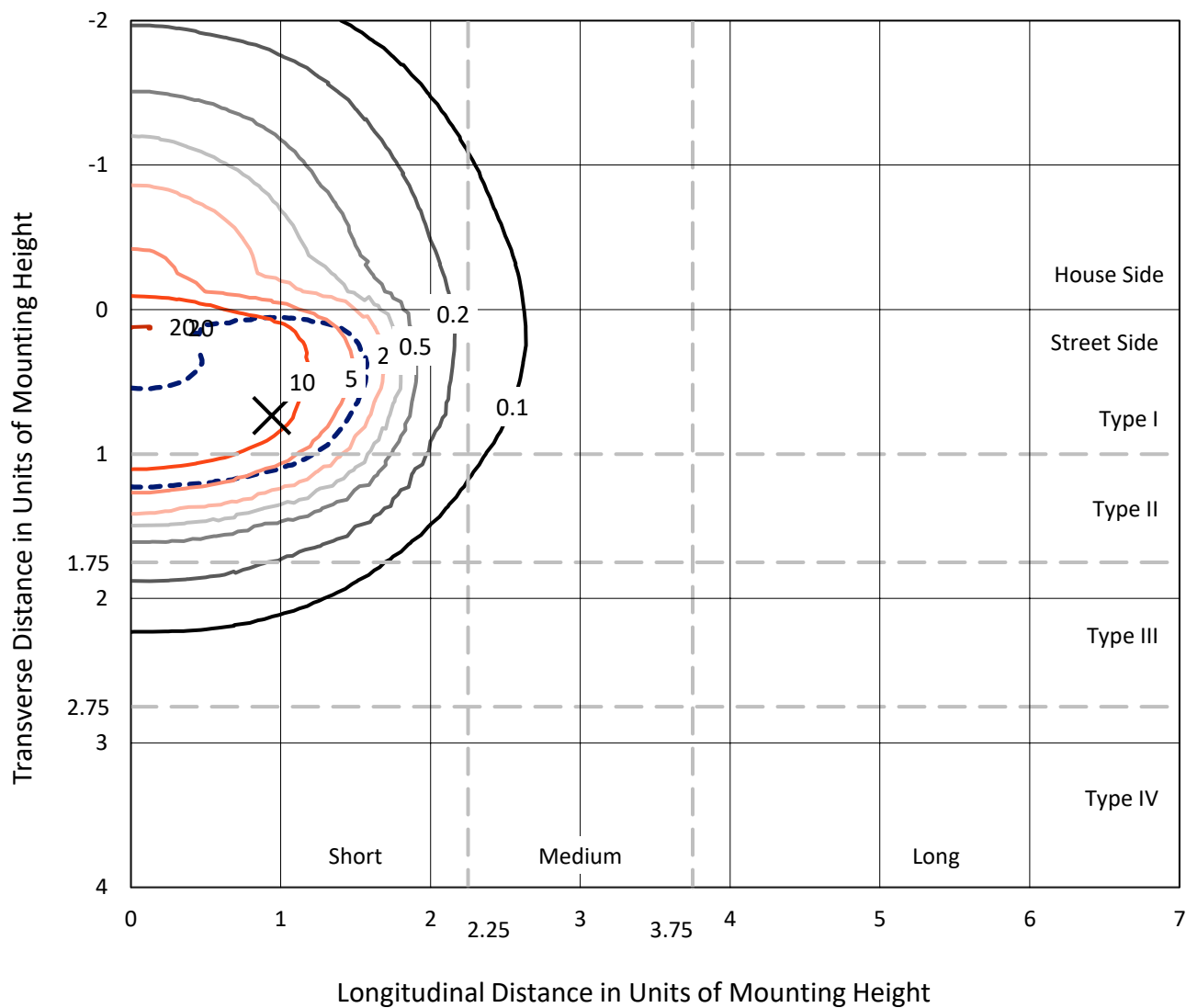
REPORT NUMBER: P532310

CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

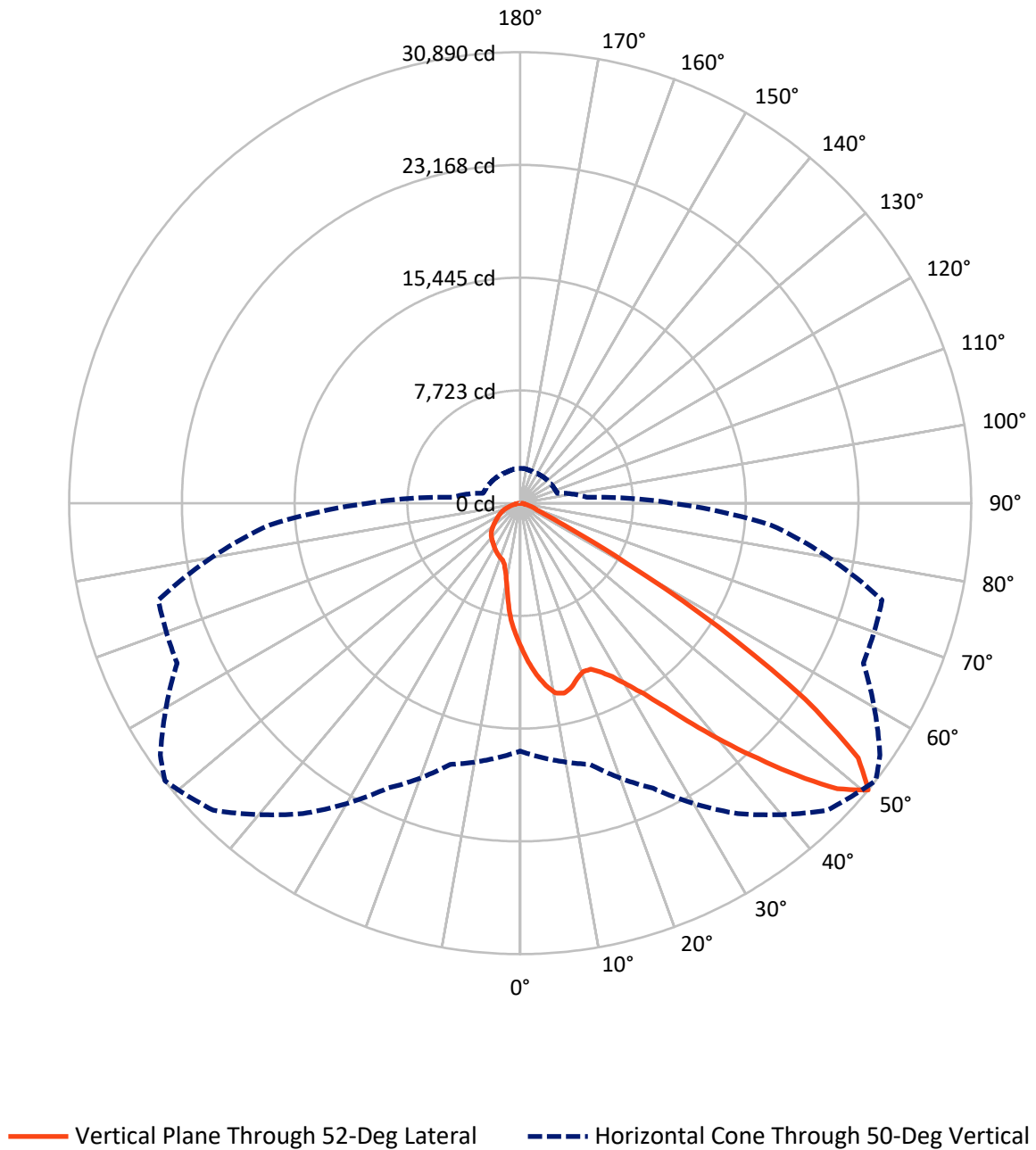


Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

REPORT NUMBER: P532310

CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P532310

CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6600.2	0.0	6600.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28511.8	0.0	28511.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	35112.0	0.0	35112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.3	2.6
10°-20°	2445.0	7.0
20°-30°	4118.6	11.7
30°-40°	6911.3	19.7
40°-50°	10572.7	30.1
50°-60°	7708.3	22.0
60°-70°	1715.5	4.9
70°-80°	618.8	1.8
80°-90°	109.5	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°	35112.0	100.0
0°-180°	35112.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532310

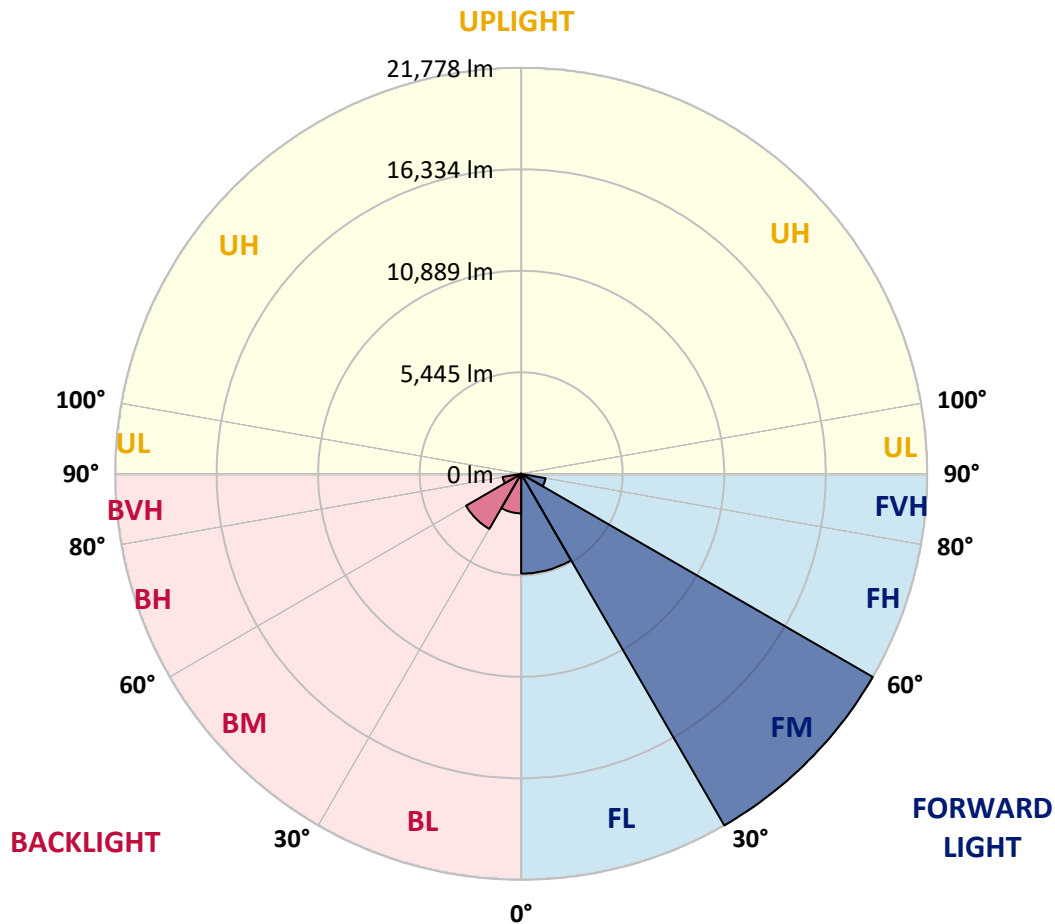
CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5355.8	15.3			
FM	(30°-60°)	21778.2	62.0			
FH	(60°-80°)	1328.7	3.8			G1/1800
FVH	(80°-90°)	49.1	0.1			G1/100
BL	(0°-30°)	2120.1	6.0	B3/2500		
BM	(30°-60°)	3414.1	9.7	B3/5000		
BH	(60°-80°)	1005.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	60.4	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-G3

Type II Short



REPORT NUMBER: P532310

CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5
2.5°	11653.6	11429.3	11454.7	11293.9	11120.4	11069.6	10891.9	10722.6	10595.7	10324.9	10075.2
5°	12736.8	12669.1	12567.6	12440.6	12309.4	11987.9	11805.9	11594.3	11128.9	10709.9	10295.3
7.5°	12893.4	12880.7	12935.7	12935.7	12982.3	12859.5	12601.4	12453.3	11958.2	11277.0	10506.8
10°	11793.2	11831.3	12097.9	12444.9	12927.2	13261.5	13219.2	13181.1	12639.5	11708.6	10756.5
12.5°	10917.3	10832.7	10989.2	11285.4	12009.0	12817.2	13363.1	13367.3	13227.7	12398.3	10938.4
15°	10422.2	10481.4	10523.8	10663.4	11209.3	12144.4	13105.0	13388.5	14002.1	12884.9	11226.2
17.5°	10739.6	10540.7	10532.2	10566.1	10845.3	11547.8	12626.8	13113.4	14425.2	13511.2	11581.6
20°	11154.2	11150.0	11031.5	10989.2	10985.0	11611.3	12313.7	12973.8	14649.5	14323.6	11941.3
22.5°	11882.1	11882.1	11687.4	11594.3	11395.4	11907.5	12356.0	12804.5	15021.8	14882.2	12114.8
25°	13100.7	12901.9	12567.6	12339.1	12224.8	12406.8	12804.5	13206.5	15347.7	15474.6	12474.5
27.5°	14226.3	13913.2	13748.2	13354.6	13202.3	13096.5	13460.4	13866.6	15728.5	16397.1	12669.1
30°	15504.2	15449.2	15153.0	14645.2	14268.6	14074.0	14408.3	14810.3	16426.7	17340.7	13117.7
32.5°	17789.2	17289.9	16887.9	16265.9	15652.3	15237.7	15567.7	15834.3	17586.1	18326.6	13608.5
35°	20256.2	20095.4	19401.5	18280.1	17340.7	16968.3	17163.0	17361.9	18936.0	19833.1	14433.7
37.5°	22680.9	22460.8	21889.6	20946.0	19803.4	19046.0	19185.6	19418.4	20450.9	21864.2	15440.8
40°	24424.2	24153.4	23865.7	23726.0	22592.0	21555.3	21474.9	21534.1	22498.9	23768.4	16557.9
42.5°	24551.2	24885.5	24974.3	25537.1	25270.5	24420.0	23924.9	23937.6	24453.9	25651.4	17687.7
45°	24284.6	23975.7	24631.6	26167.6	27047.8	27445.5	26611.9	26506.1	25664.1	26743.1	18250.5
47.5°	21487.6	21572.2	22680.9	25109.8	27652.9	29430.1	29235.5	28884.3	26311.5	26705.0	18161.6
50°	16985.3	17497.3	18525.5	21551.1	25960.3	29743.3	30890.0	30077.5	25926.4	25655.6	17256.1
52.5°	11310.8	11522.4	12199.4	16105.1	20874.0	26586.5	28985.8	29172.0	25571.0	24280.4	16109.3
55°	5035.5	5018.6	5970.7	8412.2	13096.5	20230.8	23683.7	24817.8	24204.2	22879.7	14992.2
57.5°	2132.7	2204.6	2593.9	3634.9	6440.4	12207.9	16045.9	17040.3	18614.4	18787.9	11501.2
60°	1442.9	1451.4	1557.2	1819.5	2695.5	5733.7	8416.5	9609.7	10735.3	10659.2	6101.8
62.5°	1134.0	1163.7	1244.1	1349.9	1599.5	2602.4	3766.0	4430.4	4502.3	3787.2	2314.6
65°	969.0	973.2	1053.6	1142.5	1252.5	1514.9	1815.3	1849.2	1870.3	1802.6	1701.1
67.5°	799.8	808.2	871.7	973.2	1074.8	1159.4	1244.1	1286.4	1383.7	1574.1	1548.7
70°	634.7	647.4	702.4	787.1	880.2	930.9	1036.7	1074.8	1163.7	1311.8	1371.0
72.5°	482.4	486.6	533.2	592.4	677.0	727.8	816.7	859.0	918.2	1045.2	1100.2
75°	347.0	359.7	393.5	423.2	435.8	469.7	554.3	600.9	685.5	740.5	744.7
77.5°	182.0	190.4	198.9	198.9	241.2	304.7	359.7	385.1	444.3	486.6	465.5
80°	71.9	76.2	97.3	131.2	169.3	220.0	258.1	270.8	321.6	347.0	359.7
82.5°	42.3	46.5	63.5	93.1	122.7	156.6	186.2	198.9	232.7	262.4	270.8
85°	21.2	25.4	38.1	59.2	80.4	97.3	93.1	88.9	88.9	84.6	88.9
87.5°	8.5	8.5	12.7	12.7	12.7	16.9	21.2	21.2	21.2	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P532310

CATALOG NUMBER: GALN-SA7C-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5	9897.5
2.5°	9910.2	9740.9	9584.4	9296.6	8983.5	8894.6	8530.7	8399.5	8306.4	8196.4	8162.6
5°	9961.0	9736.7	9233.1	8653.4	8192.2	7599.8	7210.5	6791.6	6486.9	6410.7	6389.6
7.5°	10066.8	9681.7	8814.2	7938.3	6994.7	6190.7	5577.1	5247.1	4955.1	4938.2	4908.5
10°	10185.2	9516.7	8357.2	6982.0	5776.0	5031.3	4663.1	4519.2	4447.3	4430.4	4421.9
12.5°	10282.6	9482.8	7845.2	6051.1	4912.8	4464.2	4354.2	4341.5	4371.1	4379.6	4396.5
15°	10324.9	9347.4	7227.4	5217.4	4375.4	4210.3	4256.9	4307.7	4328.8	4383.8	4341.5
17.5°	10405.3	9173.9	6465.7	4557.3	4074.9	4104.6	4185.0	4244.2	4278.1	4316.1	4261.1
20°	10447.6	9017.3	5750.6	4163.8	3969.2	4024.2	4134.2	4180.7	4223.0	4240.0	4176.5
22.5°	10409.5	8695.7	5120.1	3846.4	3867.6	3939.5	4036.9	4087.6	4062.2	3994.5	3956.5
25°	10307.9	8243.0	4464.2	3643.3	3723.7	3850.7	3926.8	3888.8	3842.2	3804.1	3791.4
27.5°	10303.7	7688.6	3990.3	3457.1	3601.0	3774.5	3749.1	3715.3	3736.4	3706.8	3672.9
30°	10324.9	7151.2	3601.0	3351.4	3512.1	3596.8	3626.4	3592.5	3617.9	3562.9	3579.9
32.5°	10214.9	6626.5	3347.1	3228.6	3406.4	3402.1	3499.5	3524.8	3465.6	3351.4	3368.3
35°	10261.4	6203.4	3131.3	3173.6	3287.9	3287.9	3364.0	3334.4	3177.9	3110.2	3127.1
37.5°	10583.0	5788.7	3025.5	3097.5	3173.6	3207.5	3182.1	3055.1	3017.1	3017.1	3025.5
40°	10887.7	5433.3	2962.1	3080.5	3067.8	3089.0	2902.8	2915.5	2915.5	2919.7	2898.6
42.5°	11158.5	5192.1	2911.3	2979.0	3000.1	2890.1	2775.9	2763.2	2792.8	2788.6	2771.6
45°	11255.8	4993.2	2839.3	2864.7	2881.7	2699.7	2644.7	2619.3	2653.2	2665.8	2682.8
47.5°	10883.4	4828.1	2758.9	2708.2	2674.3	2555.8	2483.9	2437.3	2479.7	2551.6	2568.5
50°	10405.3	4612.3	2632.0	2534.7	2462.7	2412.0	2361.2	2314.6	2344.3	2395.0	2382.3
52.5°	9698.6	4273.8	2471.2	2369.6	2246.9	2259.6	2213.1	2187.7	2204.6	2204.6	2191.9
55°	8691.5	3512.1	2200.4	2128.4	2026.9	2060.7	2069.2	2035.4	2001.5	2031.1	2005.7
57.5°	5932.6	2479.7	1963.4	1963.4	1861.9	1908.4	1904.2	1823.8	1743.4	1751.8	1734.9
60°	3431.8	1976.1	1811.1	1794.2	1688.4	1726.5	1734.9	1679.9	1557.2	1565.7	1548.7
62.5°	1950.7	1688.4	1582.6	1557.2	1536.0	1569.9	1569.9	1498.0	1392.2	1400.6	1383.7
65°	1658.8	1565.7	1413.3	1409.1	1400.6	1409.1	1375.2	1299.1	1206.0	1167.9	1172.1
67.5°	1506.4	1447.2	1299.1	1261.0	1235.6	1231.4	1167.9	1096.0	1053.6	1019.8	1015.6
70°	1320.2	1273.7	1163.7	1112.9	1087.5	1028.3	964.8	918.2	859.0	842.1	859.0
72.5°	1045.2	1041.0	998.6	943.6	888.6	842.1	787.1	723.6	668.6	655.9	626.3
75°	723.6	732.1	740.5	732.1	685.5	626.3	562.8	512.0	444.3	406.2	397.8
77.5°	473.9	486.6	499.3	482.4	452.8	397.8	355.4	292.0	241.2	211.6	207.3
80°	347.0	363.9	372.4	359.7	325.8	283.5	237.0	186.2	148.1	122.7	122.7
82.5°	266.6	283.5	292.0	270.8	237.0	203.1	169.3	131.2	101.6	80.4	76.2
85°	93.1	88.9	105.8	110.0	131.2	122.7	101.6	76.2	59.2	42.3	38.1
87.5°	25.4	25.4	29.6	29.6	25.4	21.2	21.2	21.2	16.9	12.7	12.7
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)