

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: P533012

Luminaire Tested: **GALN-SA8B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533012
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-SA8B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 32947 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 325
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



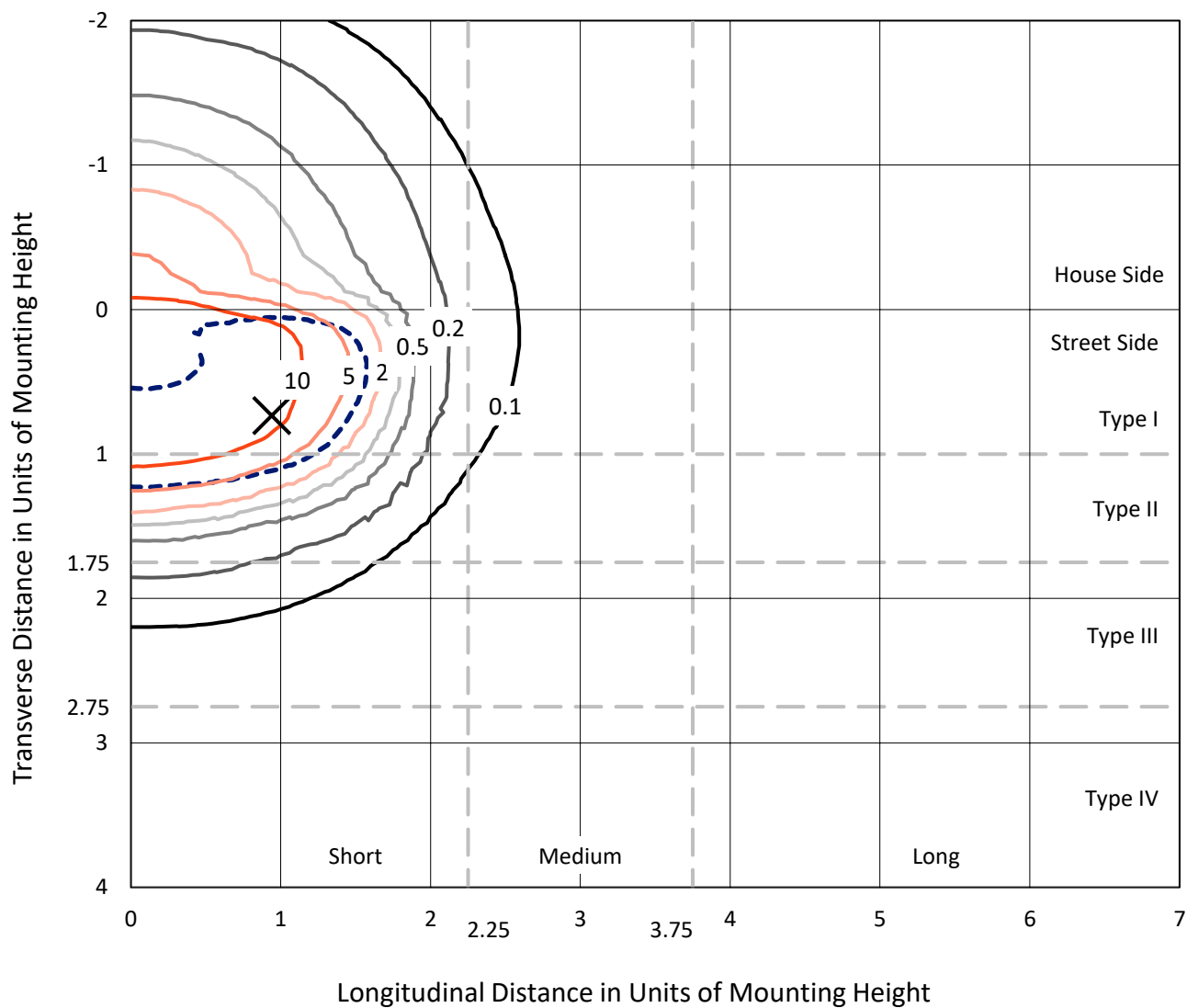
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

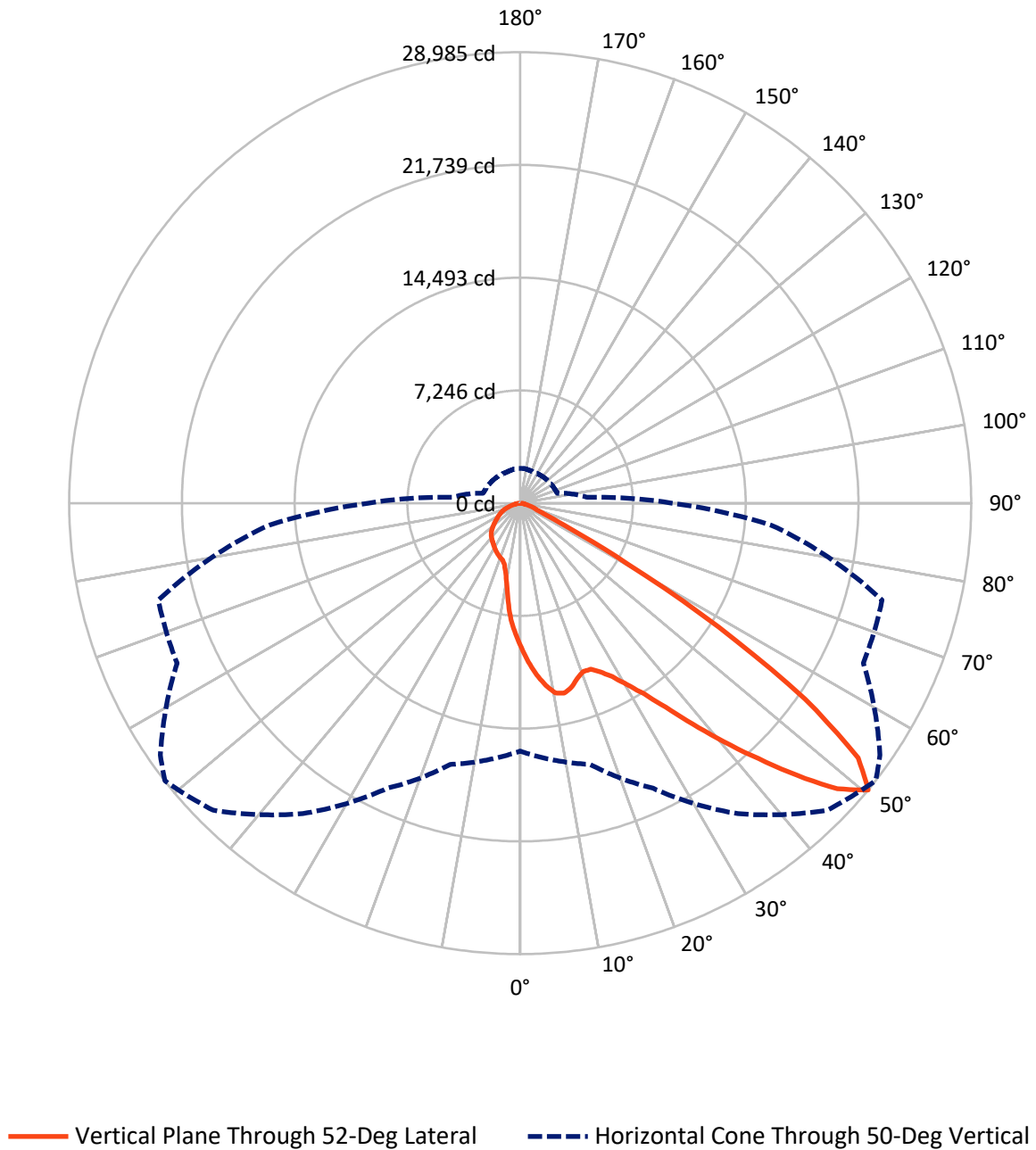


Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6193.3	0.0	6193.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26753.7	0.0	26753.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	32947.0	0.0	32947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.0	2.6
10°-20°	2294.3	7.0
20°-30°	3864.6	11.7
30°-40°	6485.2	19.7
40°-50°	9920.8	30.1
50°-60°	7233.0	22.0
60°-70°	1609.7	4.9
70°-80°	580.6	1.8
80°-90°	102.8	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°	32947.0	100.0
0°-180°	32947.0	100.0

Coefficient of Utilization



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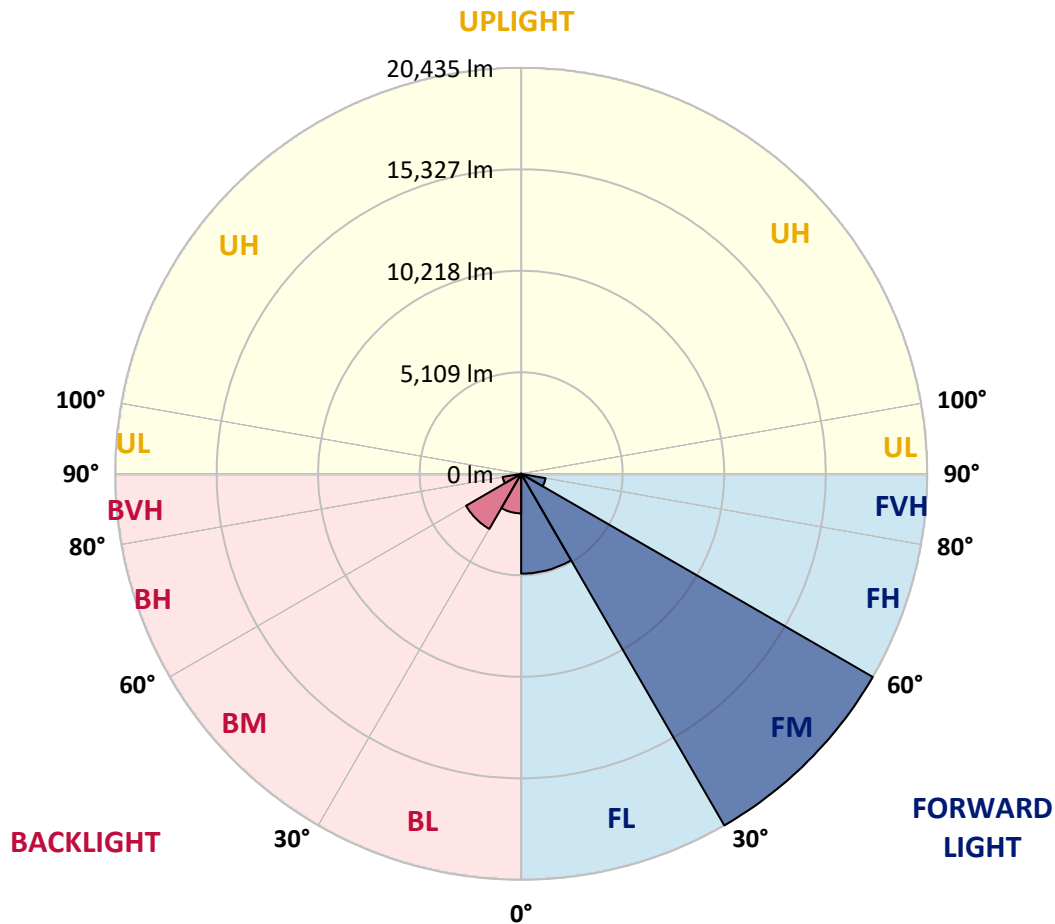
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5025.5	15.3			
FM	(30°-60°)	20435.4	62.0			
FH	(60°-80°)	1246.7	3.8			G1/1800
FVH	(80°-90°)	46.1	0.1			G1/100
BL	(0°-30°)	1989.4	6.0	B3/2500		
BM	(30°-60°)	3203.6	9.7	B3/5000		
BH	(60°-80°)	943.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	56.7	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°	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2
2.5°	10935.0	10724.6	10748.4	10597.5	10434.7	10387.1	10220.3	10061.5	9942.4	9688.2	9454.0
5°	11951.5	11888.0	11792.7	11673.5	11550.5	11248.7	11077.9	10879.4	10442.7	10049.6	9660.4
7.5°	12098.4	12086.5	12138.1	12138.1	12181.8	12066.6	11824.4	11685.5	11220.9	10581.6	9859.0
10°	11066.0	11101.8	11351.9	11677.5	12130.2	12443.8	12404.1	12368.4	11860.2	10986.6	10093.2
12.5°	10244.1	10164.7	10311.6	10589.6	11268.5	12026.9	12539.1	12543.1	12412.1	11633.8	10264.0
15°	9779.6	9835.2	9874.9	10005.9	10518.1	11395.6	12296.9	12563.0	13138.7	12090.5	10534.0
17.5°	10077.4	9890.7	9882.8	9914.6	10176.6	10835.7	11848.2	12304.9	13535.7	12678.1	10867.5
20°	10466.5	10462.5	10351.3	10311.6	10307.7	10895.3	11554.4	12173.8	13746.2	13440.5	11205.0
22.5°	11149.4	11149.4	10966.8	10879.4	10692.8	11173.2	11594.1	12015.0	14095.6	13964.6	11367.8
25°	12293.0	12106.3	11792.7	11578.2	11471.0	11641.8	12015.0	12392.2	14401.3	14520.5	11705.3
27.5°	13349.1	13055.3	12900.5	12531.2	12388.2	12289.0	12630.5	13011.6	14758.7	15386.0	11888.0
30°	14548.2	14496.6	14218.7	13742.2	13388.8	13206.2	13519.9	13897.1	15413.8	16271.5	12308.8
32.5°	16692.4	16223.8	15846.6	15263.0	14687.2	14298.1	14607.8	14858.0	16501.8	17196.6	12769.4
35°	19007.2	18856.3	18205.2	17153.0	16271.5	15922.1	16104.7	16291.3	17768.4	18610.2	13543.7
37.5°	21282.4	21075.9	20539.9	19654.4	18582.4	17871.6	18002.7	18221.0	19189.9	20516.0	14488.7
40°	22918.3	22664.1	22394.1	22263.1	21199.0	20226.2	20150.8	20206.3	21111.6	22302.8	15536.9
42.5°	23037.4	23351.0	23434.4	23962.5	23712.4	22914.3	22449.7	22461.6	22946.0	24069.7	16597.1
45°	22787.2	22497.4	23112.8	24554.1	25380.0	25753.3	24971.0	24871.8	24081.6	25094.1	17125.2
47.5°	20162.7	20242.1	21282.4	23561.5	25947.8	27615.5	27432.8	27103.3	24689.1	25058.4	17041.8
50°	15938.0	16418.4	17383.2	20222.2	24359.6	27909.3	28985.3	28223.0	24327.8	24073.7	16192.1
52.5°	10613.4	10811.9	11447.2	15112.1	19586.9	24947.2	27198.6	27373.3	23994.3	22783.3	15116.0
55°	4725.0	4709.1	5602.5	7893.5	12289.0	18983.4	22223.4	23287.5	22711.8	21469.0	14067.8
57.5°	2001.2	2068.7	2434.0	3410.7	6043.2	11455.2	15056.5	15989.6	17466.6	17629.4	10792.1
60°	1354.0	1361.9	1461.2	1707.4	2529.3	5380.2	7897.5	9017.2	10073.4	10001.9	5725.6
62.5°	1064.1	1091.9	1167.4	1266.6	1500.9	2441.9	3533.8	4157.2	4224.7	3553.7	2171.9
65°	909.3	913.2	988.7	1072.1	1175.3	1421.5	1703.4	1735.1	1755.0	1691.5	1596.2
67.5°	750.4	758.4	817.9	913.2	1008.5	1087.9	1167.4	1207.1	1298.4	1477.1	1453.2
70°	595.6	607.5	659.1	738.5	825.9	873.5	972.8	1008.5	1091.9	1230.9	1286.5
72.5°	452.6	456.6	500.3	555.9	635.3	682.9	766.3	806.0	861.6	980.7	1032.4
75°	325.6	337.5	369.3	397.1	409.0	440.7	520.1	563.8	643.2	694.9	698.8
77.5°	170.7	178.7	186.6	186.6	226.3	285.9	337.5	361.3	416.9	456.6	436.8
80°	67.5	71.5	91.3	123.1	158.8	206.5	242.2	254.1	301.8	325.6	337.5
82.5°	39.7	43.7	59.6	87.4	115.1	146.9	174.7	186.6	218.4	246.2	254.1
85°	19.9	23.8	35.7	55.6	75.4	91.3	87.4	83.4	83.4	79.4	83.4
87.5°	7.9	7.9	11.9	11.9	11.9	15.9	19.9	19.9	19.9	23.8	23.8
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°	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2	9287.2
2.5°	9299.1	9140.3	8993.4	8723.4	8429.6	8346.2	8004.7	7881.6	7794.3	7691.0	7659.3
5°	9346.8	9136.3	8663.8	8119.9	7687.1	7131.2	6765.9	6372.8	6086.9	6015.4	5995.6
7.5°	9446.0	9084.7	8270.7	7448.8	6563.4	5809.0	5233.2	4923.5	4649.6	4633.7	4605.9
10°	9557.2	8929.9	7841.9	6551.5	5419.9	4721.0	4375.6	4240.6	4173.1	4157.2	4149.3
12.5°	9648.5	8898.1	7361.5	5677.9	4609.9	4189.0	4085.7	4073.8	4101.6	4109.6	4125.4
15°	9688.2	8771.0	6781.8	4895.7	4105.6	3950.7	3994.4	4042.1	4061.9	4113.5	4073.8
17.5°	9763.7	8608.2	6067.1	4276.3	3823.7	3851.5	3926.9	3982.5	4014.3	4050.0	3998.4
20°	9803.4	8461.3	5396.0	3907.1	3724.4	3776.0	3879.3	3922.9	3962.7	3978.5	3919.0
22.5°	9767.7	8159.6	4804.4	3609.3	3629.1	3696.6	3787.9	3835.6	3811.8	3748.2	3712.5
25°	9672.4	7734.7	4189.0	3418.7	3494.1	3613.2	3684.7	3649.0	3605.3	3569.6	3557.6
27.5°	9668.4	7214.6	3744.3	3244.0	3379.0	3541.8	3517.9	3486.2	3506.0	3478.2	3446.5
30°	9688.2	6710.3	3379.0	3144.7	3295.6	3375.0	3402.8	3371.0	3394.9	3343.2	3359.1
32.5°	9585.0	6217.9	3140.7	3029.6	3196.3	3192.4	3283.7	3307.5	3251.9	3144.7	3160.6
35°	9628.7	5820.9	2938.2	2977.9	3085.1	3085.1	3156.6	3128.8	2981.9	2918.4	2934.3
37.5°	9930.4	5431.8	2839.0	2906.5	2977.9	3009.7	2985.9	2866.8	2831.0	2831.0	2839.0
40°	10216.3	5098.2	2779.4	2890.6	2878.7	2898.5	2723.8	2735.7	2735.7	2739.7	2719.9
42.5°	10470.4	4871.9	2731.8	2795.3	2815.1	2711.9	2604.7	2592.8	2620.6	2616.6	2600.7
45°	10561.8	4685.3	2664.3	2688.1	2704.0	2533.2	2481.6	2457.8	2489.6	2501.5	2517.4
47.5°	10212.4	4530.4	2588.8	2541.2	2509.4	2398.2	2330.7	2287.1	2326.8	2394.3	2410.1
50°	9763.7	4327.9	2469.7	2378.4	2310.9	2263.2	2215.6	2171.9	2199.7	2247.4	2235.4
52.5°	9100.6	4010.3	2318.8	2223.5	2108.4	2120.3	2076.6	2052.8	2068.7	2068.7	2056.8
55°	8155.6	3295.6	2064.7	1997.2	1901.9	1933.7	1941.6	1909.9	1878.1	1905.9	1882.1
57.5°	5566.8	2326.8	1842.4	1842.4	1747.1	1790.7	1786.8	1711.3	1635.9	1643.8	1627.9
60°	3220.1	1854.3	1699.4	1683.5	1584.3	1620.0	1627.9	1576.3	1461.2	1469.1	1453.2
62.5°	1830.4	1584.3	1485.0	1461.2	1441.3	1473.1	1473.1	1405.6	1306.3	1314.3	1298.4
65°	1556.5	1469.1	1326.2	1322.2	1314.3	1322.2	1290.4	1219.0	1131.6	1095.9	1099.9
67.5°	1413.5	1357.9	1219.0	1183.2	1159.4	1155.4	1095.9	1028.4	988.7	956.9	952.9
70°	1238.8	1195.1	1091.9	1044.3	1020.4	964.9	905.3	861.6	806.0	790.1	806.0
72.5°	980.7	976.8	937.1	885.4	833.8	790.1	738.5	679.0	627.4	615.4	587.6
75°	679.0	686.9	694.9	686.9	643.2	587.6	528.1	480.4	416.9	381.2	373.2
77.5°	444.7	456.6	468.5	452.6	424.9	373.2	333.5	274.0	226.3	198.5	194.6
80°	325.6	341.5	349.4	337.5	305.7	266.0	222.4	174.7	139.0	115.1	115.1
82.5°	250.1	266.0	274.0	254.1	222.4	190.6	158.8	123.1	95.3	75.4	71.5
85°	87.4	83.4	99.3	103.2	123.1	115.1	95.3	71.5	55.6	39.7	35.7
87.5°	23.8	23.8	27.8	27.8	23.8	19.9	19.9	19.9	15.9	11.9	11.9
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)