

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: P534182

Luminaire Tested: **GALN-SA9C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534182
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-SA9C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45701 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 481
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



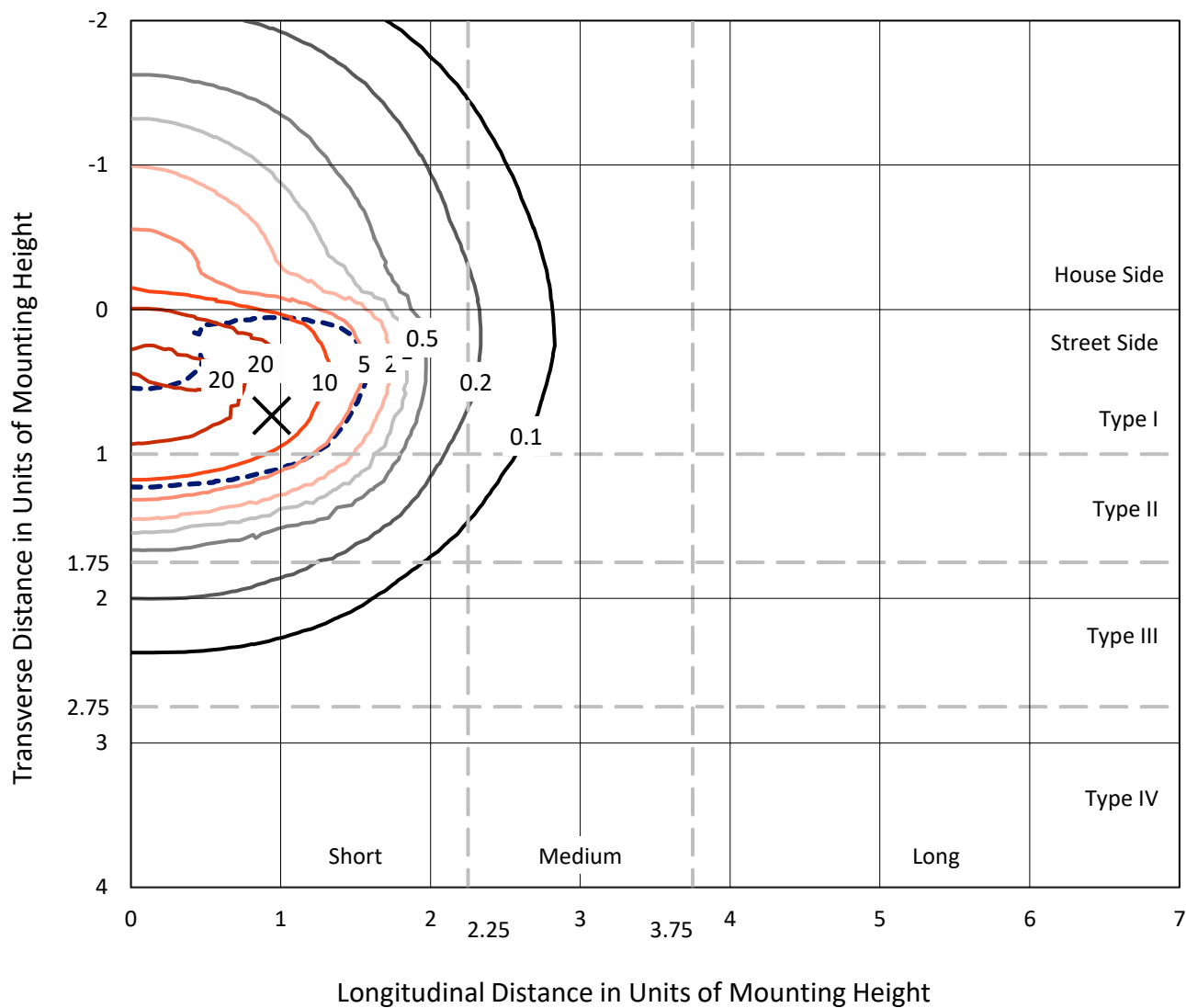
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

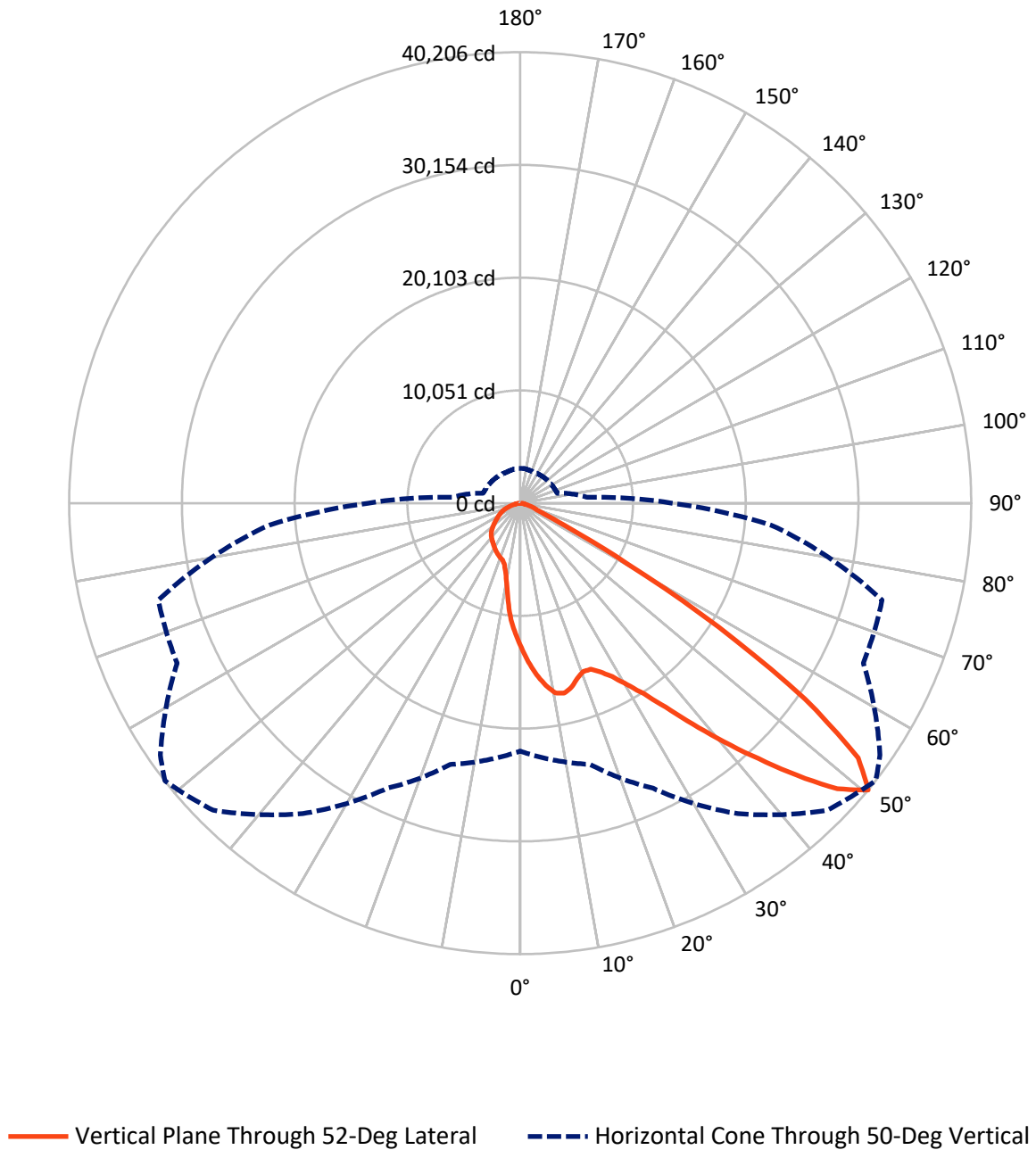
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 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	8590.7	0.0	8590.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37110.3	0.0	37110.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	45701.0	0.0	45701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1187.4	2.6
10°-20°	3182.4	7.0
20°-30°	5360.7	11.7
30°-40°	8995.7	19.7
40°-50°	13761.1	30.1
50°-60°	10033.0	22.0
60°-70°	2232.8	4.9
70°-80°	805.4	1.8
80°-90°	142.5	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°	45701.0	100.0
0°-180°	45701.0	100.0

Coefficient of Utilization



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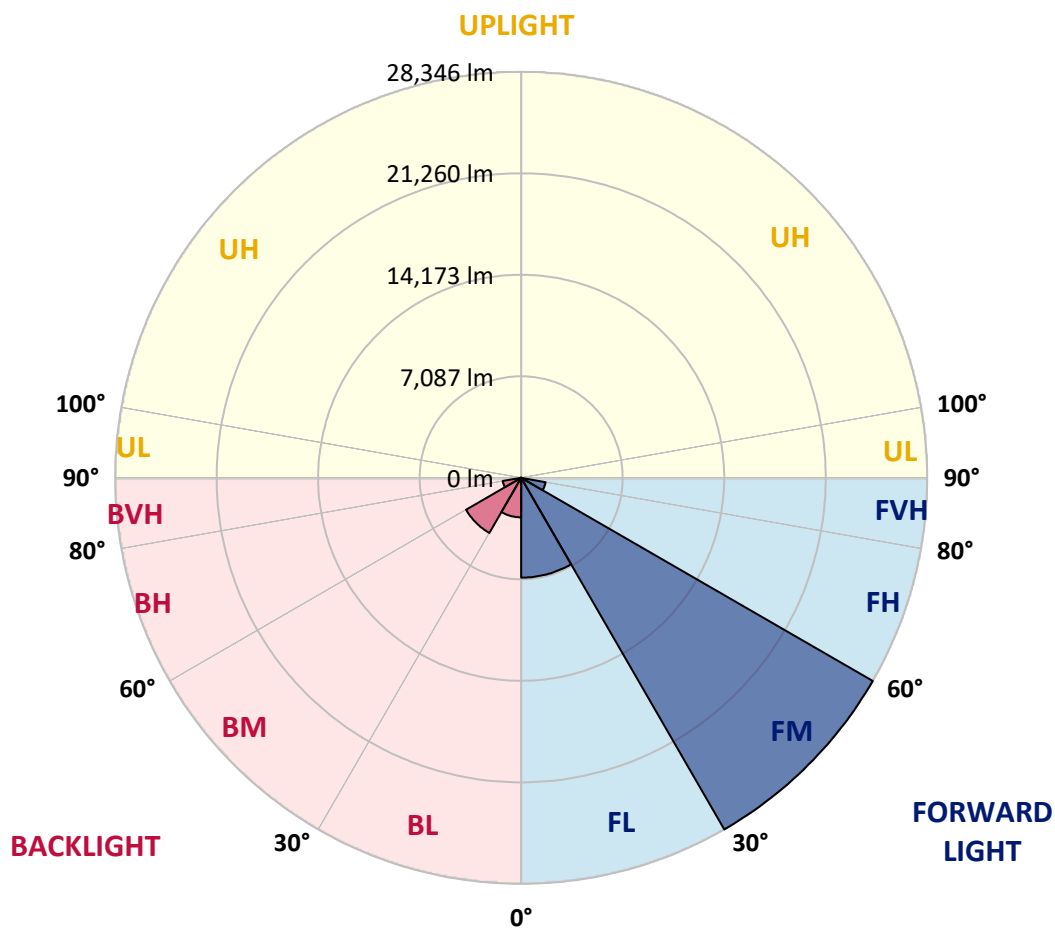
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6971.0	15.3			
FM	(30°-60°)	28346.1	62.0			
FH	(60°-80°)	1729.4	3.8			G1/1800
FVH	(80°-90°)	63.9	0.1			G1/100
BL	(0°-30°)	2759.5	6.0	B4/5000		
BM	(30°-60°)	4443.7	9.7	B3/5000		
BH	(60°-80°)	1308.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	78.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4
2.5°	15168.0	14876.1	14909.2	14699.9	14474.1	14408.0	14176.6	13956.3	13791.1	13438.6	13113.7
5°	16578.0	16489.9	16357.7	16192.4	16021.7	15603.1	15366.3	15090.9	14485.1	13939.8	13400.1
7.5°	16781.8	16765.2	16836.8	16836.8	16897.4	16737.7	16401.7	16209.0	15564.6	14677.8	13675.5
10°	15349.8	15399.3	15746.3	16197.9	16825.8	17260.9	17205.8	17156.3	16451.3	15239.6	14000.4
12.5°	14209.7	14099.5	14303.3	14688.9	15630.7	16682.6	17393.1	17398.6	17216.9	16137.4	14237.2
15°	13565.3	13642.4	13697.5	13879.2	14589.7	15806.9	17057.1	17426.2	18224.8	16770.7	14611.8
17.5°	13978.4	13719.5	13708.5	13752.6	14116.1	15030.3	16434.8	17068.2	18775.5	17585.9	15074.4
20°	14518.1	14512.6	14358.4	14303.3	14297.8	15112.9	16027.2	16886.4	19067.4	18643.3	15542.5
22.5°	15465.4	15465.4	15212.1	15090.9	14832.1	15498.5	16082.3	16666.1	19552.1	19370.3	15768.4
25°	17051.6	16792.8	16357.7	16060.3	15911.6	16148.4	16666.1	17189.3	19976.2	20141.4	16236.5
27.5°	18516.7	18109.1	17894.3	17382.1	17183.8	17046.1	17519.8	18048.5	20471.9	21342.1	16489.9
30°	20180.0	20108.4	19722.8	19061.9	18571.7	18318.4	18753.5	19276.7	21380.6	22570.3	17073.7
32.5°	23154.1	22504.2	21981.0	21171.3	20372.7	19833.0	20262.6	20609.6	22889.7	23853.6	17712.5
35°	26365.0	26155.8	25252.5	23793.0	22570.3	22085.6	22339.0	22597.8	24646.7	25814.3	18786.5
37.5°	29520.9	29234.5	28491.0	27262.8	25775.7	24789.9	24971.6	25274.5	26618.4	28457.9	20097.4
40°	31790.1	31437.6	31063.1	30881.3	29405.3	28055.9	27951.2	28028.3	29284.1	30936.4	21551.4
42.5°	31955.3	32390.4	32506.1	33238.6	32891.6	31784.6	31140.2	31156.7	31828.6	33387.3	23021.9
45°	31608.3	31206.3	32059.9	34059.2	35204.8	35722.5	34637.5	34499.8	33403.8	34808.2	23754.4
47.5°	27967.8	28077.9	29520.9	32682.3	35992.4	38305.6	38052.2	37595.1	34246.5	34758.7	23638.8
50°	22107.6	22774.1	24112.4	28050.4	33789.3	38713.2	40205.7	39148.3	33745.3	33392.8	22460.1
52.5°	14721.9	14997.3	15878.5	20962.1	27169.2	34604.5	37727.3	37969.6	33282.6	31602.8	20967.6
55°	6554.1	6532.1	7771.3	10949.2	17046.1	26332.0	30826.2	32302.3	31503.7	29779.8	19513.5
57.5°	2775.8	2869.5	3376.2	4731.1	8382.6	15889.5	20884.9	22179.2	24228.1	24453.9	14969.7
60°	1878.1	1889.1	2026.8	2368.3	3508.4	7462.8	10954.7	12507.8	13972.9	13873.7	7942.0
62.5°	1476.0	1514.6	1619.2	1756.9	2081.9	3387.2	4901.8	5766.5	5860.1	4929.3	3012.7
65°	1261.2	1266.8	1371.4	1487.1	1630.3	1971.7	2362.8	2406.8	2434.4	2346.3	2214.1
67.5°	1040.9	1052.0	1134.6	1266.8	1398.9	1509.1	1619.2	1674.3	1801.0	2048.8	2015.8
70°	826.1	842.7	914.3	1024.4	1145.6	1211.7	1349.4	1398.9	1514.6	1707.4	1784.5
72.5°	627.9	633.4	694.0	771.1	881.2	947.3	1063.0	1118.0	1195.2	1360.4	1432.0
75°	451.6	468.1	512.2	550.8	567.3	611.3	721.5	782.1	892.2	963.8	969.3
77.5°	236.8	247.8	258.9	258.9	313.9	396.5	468.1	501.2	578.3	633.4	605.8
80°	93.6	99.1	126.7	170.7	220.3	286.4	336.0	352.5	418.6	451.6	468.1
82.5°	55.1	60.6	82.6	121.2	159.7	203.8	242.3	258.9	302.9	341.5	352.5
85°	27.5	33.0	49.6	77.1	104.6	126.7	121.2	115.7	115.7	110.2	115.7
87.5°	11.0	11.0	16.5	16.5	16.5	22.0	27.5	27.5	27.5	33.0	33.0
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°	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4	12882.4
2.5°	12898.9	12678.6	12474.8	12100.3	11692.7	11577.0	11103.4	10932.7	10811.5	10668.3	10624.2
5°	12965.0	12673.1	12017.7	11263.1	10662.8	9891.7	9385.0	8839.8	8443.2	8344.1	8316.5
7.5°	13102.7	12601.5	11472.4	10332.3	9104.1	8057.7	7259.1	6829.5	6449.4	6427.4	6388.9
10°	13256.9	12386.7	10877.6	9087.6	7517.9	6548.6	6069.4	5882.2	5788.5	5766.5	5755.5
12.5°	13383.5	12342.6	10211.2	7875.9	6394.4	5810.6	5667.4	5650.8	5689.4	5700.4	5722.4
15°	13438.6	12166.4	9407.0	6790.9	5694.9	5480.1	5540.7	5606.8	5634.3	5705.9	5650.8
17.5°	13543.3	11940.5	8415.7	5931.7	5303.9	5342.4	5447.0	5524.2	5568.2	5617.8	5546.2
20°	13598.3	11736.8	7484.9	5419.5	5166.2	5237.8	5381.0	5441.5	5496.6	5518.6	5436.0
22.5°	13548.8	11318.2	6664.2	5006.4	5034.0	5127.6	5254.3	5320.4	5287.3	5199.2	5149.6
25°	13416.6	10728.9	5810.6	4742.1	4846.7	5011.9	5111.1	5061.5	5000.9	4951.4	4934.8
27.5°	13411.1	10007.4	5193.7	4499.7	4687.0	4912.8	4879.8	4835.7	4863.2	4824.7	4780.6
30°	13438.6	9307.9	4687.0	4362.0	4571.3	4681.5	4720.0	4676.0	4709.0	4637.4	4659.5
32.5°	13295.4	8625.0	4356.5	4202.3	4433.6	4428.1	4554.8	4587.9	4510.8	4362.0	4384.1
35°	13356.0	8074.2	4075.6	4130.7	4279.4	4279.4	4378.6	4340.0	4136.2	4048.1	4070.1
37.5°	13774.6	7534.4	3938.0	4031.6	4130.7	4174.8	4141.7	3976.5	3926.9	3926.9	3938.0
40°	14171.1	7071.8	3855.3	4009.6	3993.0	4020.6	3778.2	3794.8	3794.8	3800.3	3772.7
42.5°	14523.6	6757.9	3789.3	3877.4	3904.9	3761.7	3613.0	3596.5	3635.0	3629.5	3607.5
45°	14650.3	6499.0	3695.6	3728.7	3750.7	3513.9	3442.3	3409.2	3453.3	3469.8	3491.8
47.5°	14165.6	6284.2	3591.0	3524.9	3480.8	3326.6	3233.0	3172.4	3227.5	3321.1	3343.1
50°	13543.3	6003.3	3425.7	3299.1	3205.4	3139.4	3073.3	3012.7	3051.2	3117.3	3100.8
52.5°	12623.5	5562.7	3216.5	3084.3	2924.6	2941.1	2880.5	2847.4	2869.5	2869.5	2853.0
55°	11312.7	4571.3	2864.0	2770.3	2638.2	2682.2	2693.2	2649.2	2605.1	2643.7	2610.6
57.5°	7721.7	3227.5	2555.5	2555.5	2423.4	2483.9	2478.4	2373.8	2269.1	2280.2	2258.1
60°	4466.7	2572.1	2357.3	2335.2	2197.5	2247.1	2258.1	2186.5	2026.8	2037.8	2015.8
62.5°	2539.0	2197.5	2059.9	2026.8	1999.3	2043.3	2043.3	1949.7	1812.0	1823.0	1801.0
65°	2159.0	2037.8	1839.5	1834.0	1823.0	1834.0	1790.0	1690.8	1569.7	1520.1	1525.6
67.5°	1960.7	1883.6	1690.8	1641.3	1608.2	1602.7	1520.1	1426.5	1371.4	1327.3	1321.8
70°	1718.4	1657.8	1514.6	1448.5	1415.5	1338.4	1255.7	1195.2	1118.0	1096.0	1118.0
72.5°	1360.4	1354.9	1299.8	1228.2	1156.6	1096.0	1024.4	941.8	870.2	853.7	815.1
75°	941.8	952.8	963.8	952.8	892.2	815.1	732.5	666.4	578.3	528.7	517.7
77.5°	616.9	633.4	649.9	627.9	589.3	517.7	462.6	380.0	313.9	275.4	269.9
80°	451.6	473.7	484.7	468.1	424.1	369.0	308.4	242.3	192.8	159.7	159.7
82.5°	347.0	369.0	380.0	352.5	308.4	264.4	220.3	170.7	132.2	104.6	99.1
85°	121.2	115.7	137.7	143.2	170.7	159.7	132.2	99.1	77.1	55.1	49.6
87.5°	33.0	33.0	38.6	38.6	33.0	27.5	27.5	27.5	22.0	16.5	16.5
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)