

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: P533614

Luminaire Tested: **GALN-SA9A-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35139 lumens
Efficiency: N/A
Efficacy: 128.2 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

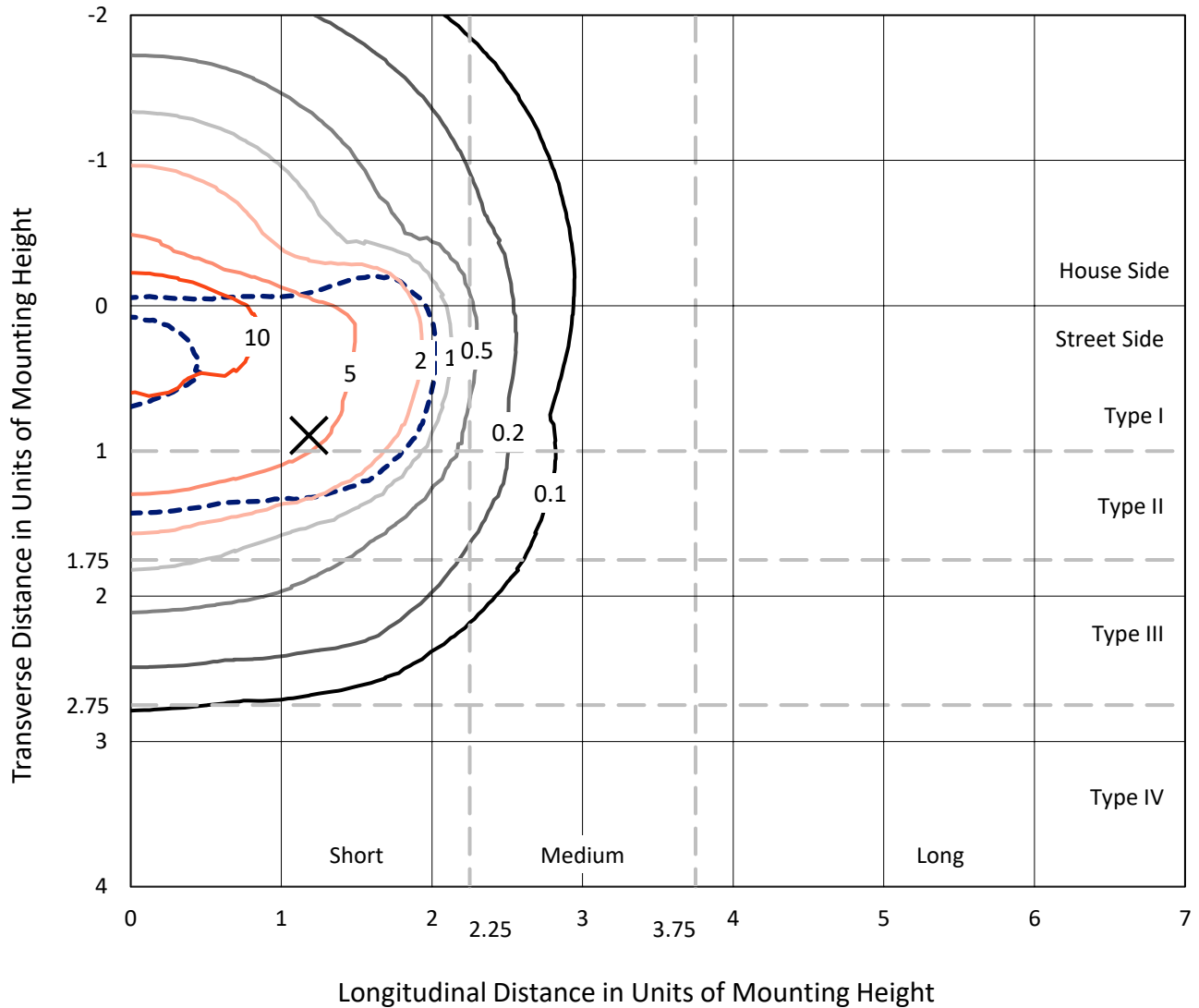
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

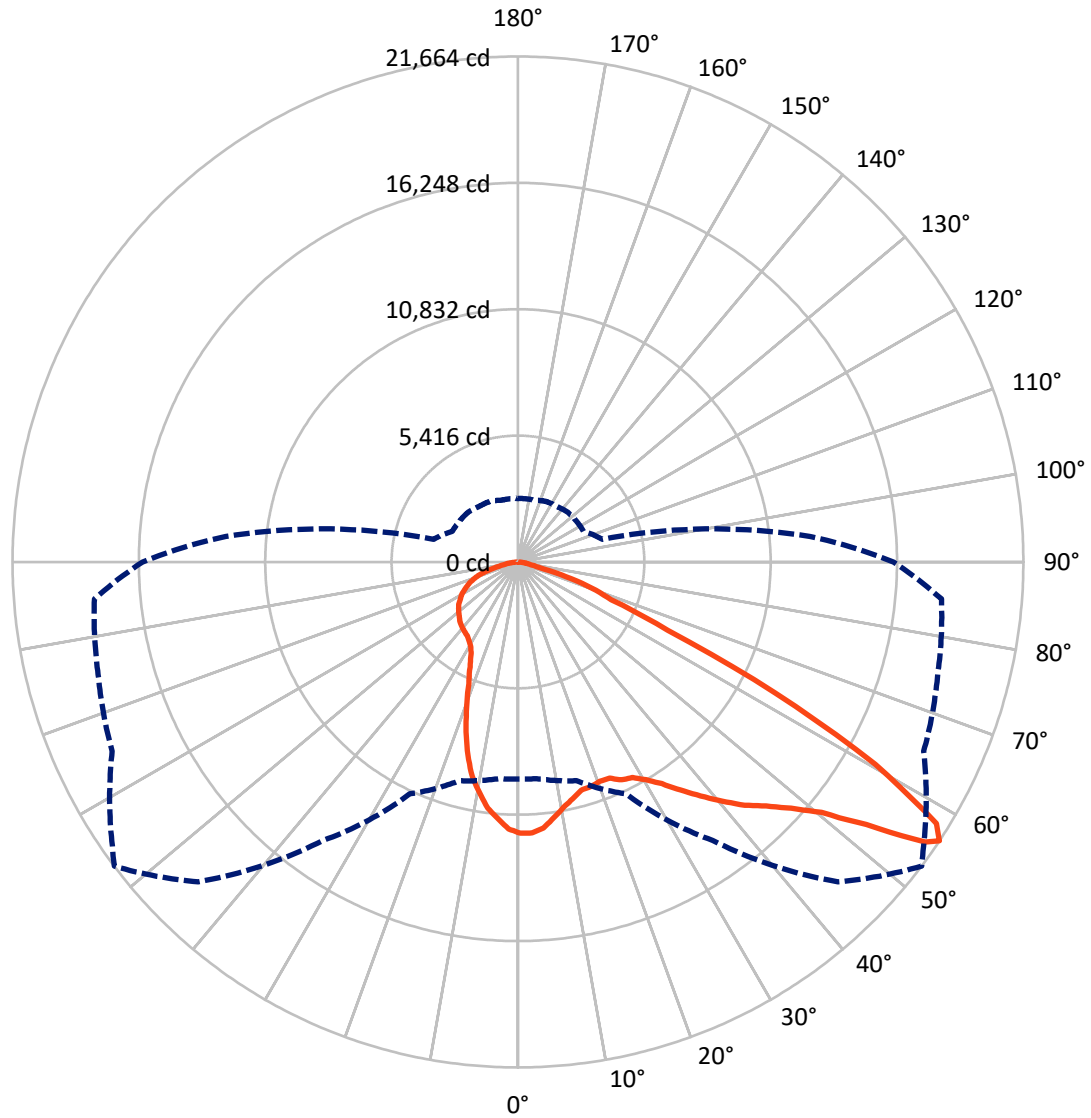
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10254.3	0.0	10254.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	24884.7	0.0	24884.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	35139.0	0.0	35139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.2	2.9
10°-20°	2570.4	7.3
20°-30°	3790.3	10.8
30°-40°	5415.6	15.4
40°-50°	7453.9	21.2
50°-60°	8808.5	25.1
60°-70°	4694.4	13.4
70°-80°	1190.9	3.4
80°-90°	185.7	0.5
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°	35139.0	100.0
0°-180°	35139.0	100.0

Coefficient of Utilization

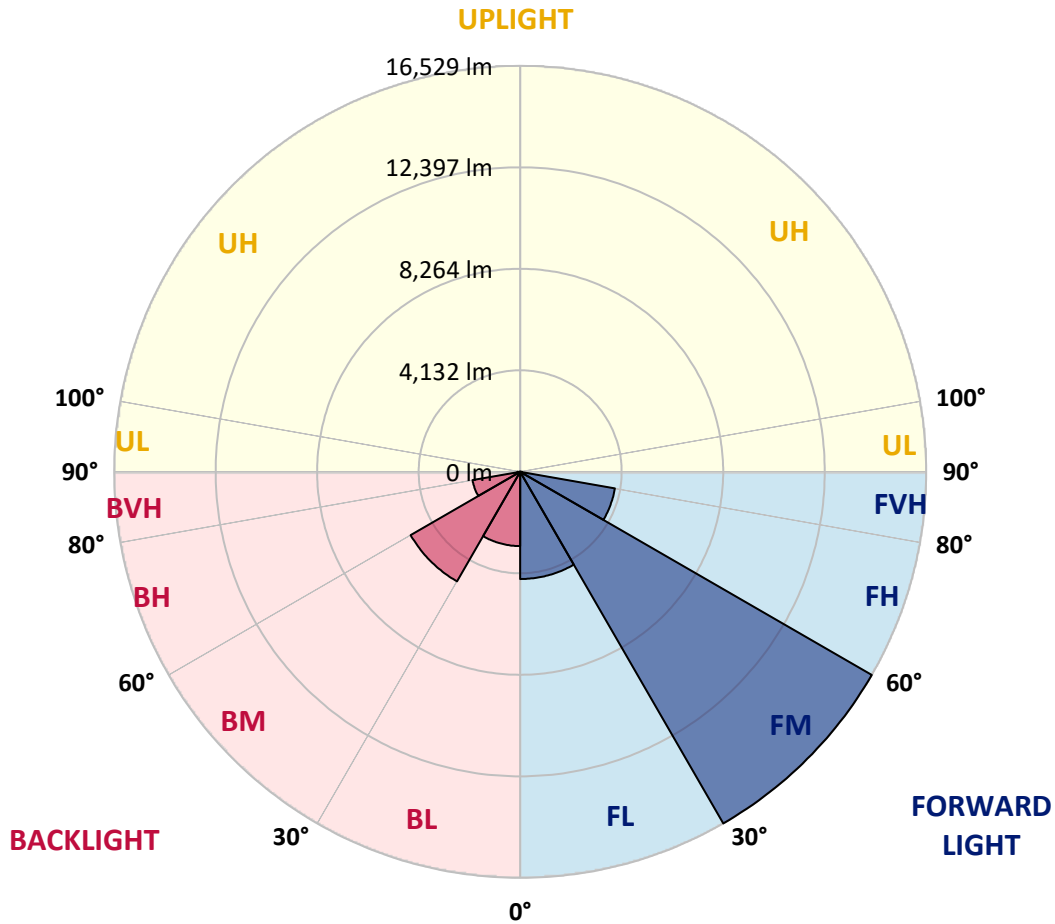


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4365.5	12.4			
FM (30°-60°)	16528.7	47.0			
FH (60°-80°)	3915.8	11.1			G2/5000
FVH (80°-90°)	74.6	0.2			G1/100
BL (0°-30°)	3024.4	8.6	B4/5000		
BM (30°-60°)	5149.4	14.7	B4/8500		
BH (60°-80°)	1969.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	111.1	0.3			G2/225
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°	53°	55°	65°	75°	85°
0°	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4
2.5°	11481.1	11382.0	11440.6	11418.0	11602.8	11656.9	11629.9	11652.4	11756.1	11706.5	11602.8
5°	10728.3	10868.1	10895.1	10962.7	11070.9	11282.8	11449.6	11494.6	11544.2	11774.1	11751.6
7.5°	10043.2	10137.8	10088.2	10286.6	10521.0	10863.6	11066.4	11102.5	11557.8	11684.0	11778.6
10°	9610.4	9515.8	9741.1	9795.2	10061.2	10453.4	10696.8	10845.5	11260.2	11760.6	11819.2
12.5°	9209.2	9177.7	9312.9	9466.2	9763.7	10169.4	10417.3	10475.9	11116.0	11643.4	11918.4
15°	8911.7	8875.7	9010.9	9123.6	9470.7	9831.3	10146.8	10313.6	10958.2	11575.8	11832.7
17.5°	8677.3	8672.8	8749.5	8952.3	9308.4	9610.4	10119.8	10128.8	10877.1	11679.5	11904.8
20°	8663.8	8659.3	8672.8	8898.2	9222.8	9592.4	10034.1	10115.3	10877.1	11607.3	11909.4
22.5°	8776.5	8704.4	8785.5	8929.8	9164.2	9623.9	10065.7	10246.0	11138.5	11963.4	12112.2
25°	8956.8	8974.8	9019.9	9069.5	9204.7	9696.1	10345.2	10493.9	11445.1	12270.0	12391.7
27.5°	9285.9	9276.9	9294.9	9321.9	9439.1	9763.7	10457.9	10841.0	12085.2	12815.4	12693.7
30°	9768.2	9736.6	9808.8	9903.4	9795.2	9980.1	10832.0	11120.5	12680.2	13365.3	13031.8
32.5°	10205.4	10322.6	10457.9	10498.4	10367.7	10403.8	11327.9	11620.9	13176.0	14041.5	13446.5
35°	10750.9	10845.5	11025.8	11152.1	11129.5	11021.3	12004.0	12391.7	13892.7	14537.3	13883.7
37.5°	11282.8	11395.5	11693.0	12067.1	11859.8	11810.2	12725.2	13045.3	14113.6	14803.3	14203.8
40°	12139.2	12134.7	12648.6	12842.4	13027.3	12941.6	13473.5	13581.7	14230.8	14744.7	14212.8
42.5°	13144.5	13081.4	13604.2	13906.3	14145.2	14154.2	14253.4	14217.3	14284.9	14447.2	14118.1
45°	14100.1	14235.3	14762.7	15303.7	15542.6	15569.6	14911.5	14843.9	14379.6	14361.5	13937.8
47.5°	15267.6	15299.1	15731.9	16444.1	16998.5	16809.2	15763.4	15614.7	14794.3	14934.0	14239.8
50°	15335.2	15569.6	15957.3	16795.7	18499.6	18450.0	16867.8	16588.3	15461.4	15745.4	15082.8
52.5°	13919.8	13865.7	14325.5	15695.8	18386.9	20081.8	18698.0	18030.8	16894.9	16678.5	16448.6
55°	10606.6	10732.8	11138.5	12522.4	15966.3	20104.4	21190.7	20645.3	18427.5	18057.9	17791.9
56°	9303.9	9321.9	9705.1	10967.2	14568.9	19387.6	21664.0	21222.3	19189.3	18625.8	18220.1
57.5°	7712.7	7609.0	7807.3	8497.0	12297.0	17873.0	21145.6	21578.4	20081.8	19238.9	18675.4
60°	6071.9	6049.3	5968.2	6094.4	7771.3	13464.5	17602.6	18576.2	19991.7	18661.9	17886.6
62.5°	4958.5	4845.8	5008.1	5188.4	5400.2	8352.8	12369.1	12941.6	15871.6	14898.0	13437.5
65°	3845.1	3791.0	3993.8	4579.8	4706.0	5305.6	7045.5	7487.3	9371.5	9204.7	8104.9
67.5°	2646.0	2655.0	2830.8	3723.4	4363.5	4309.4	4313.9	4543.8	4890.9	3633.2	3164.4
70°	1676.9	1672.4	1767.0	2398.1	3511.5	3547.6	3367.3	3299.6	3128.3	1893.2	2005.9
72.5°	1077.3	1045.8	1095.4	1325.3	1816.6	2100.6	2163.7	2204.3	1812.1	1487.5	1613.8
75°	608.5	577.0	559.0	617.6	716.7	829.4	910.6	937.6	1050.3	1126.9	1194.5
77.5°	184.8	166.8	202.8	270.5	356.1	477.8	581.5	599.5	707.7	797.9	865.5
80°	81.1	90.2	126.2	180.3	252.4	338.1	410.2	437.2	509.4	577.0	595.0
82.5°	49.6	54.1	85.6	121.7	175.8	238.9	293.0	302.0	374.1	428.2	441.8
85°	18.0	22.5	45.1	72.1	112.7	153.3	153.3	166.8	153.3	153.3	166.8
87.5°	0.0	0.0	4.5	9.0	9.0	13.5	18.0	18.0	22.5	27.0	31.6
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°	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4	11625.4
2.5°	11656.9	11634.4	11598.3	11467.6	11454.1	11413.5	11188.1	11152.1	11188.1	11079.9	11088.9
5°	11634.4	11702.0	11431.5	11300.8	11057.4	10881.6	10678.7	10575.1	10390.3	10273.1	10403.8
7.5°	11733.6	11706.5	11368.4	11084.4	10719.3	10273.1	9916.9	9714.1	9389.5	9299.4	9367.0
10°	11697.5	11553.2	11156.6	10782.4	10092.7	9700.6	9123.6	8564.6	8258.1	8100.3	8077.8
12.5°	11647.9	11607.3	10944.7	10300.1	9574.4	8749.5	7938.1	7410.7	6910.3	6693.9	6725.5
15°	11706.5	11363.9	10548.0	9732.1	8767.5	7685.6	6811.1	6130.5	5783.4	5643.6	5643.6
17.5°	11679.5	11246.7	10358.7	9096.5	7875.0	6594.8	5634.6	5224.4	5080.2	5080.2	5120.8
20°	11693.0	11323.3	9975.5	8461.0	6820.2	5553.5	4854.8	4706.0	4769.1	4791.7	4814.2
22.5°	11769.6	11070.9	9601.4	7762.3	5842.0	4751.1	4408.5	4413.0	4525.7	4647.4	4624.9
25°	11864.3	10971.7	9146.1	7068.1	5093.7	4358.9	4250.8	4237.2	4322.9	4386.0	4395.0
27.5°	11783.1	10800.5	8681.8	6202.6	4480.7	4097.5	4075.0	4084.0	4111.0	4237.2	4196.7
30°	12049.1	10850.0	8100.3	5476.9	4142.6	4011.9	3984.8	3971.3	4011.9	4047.9	4016.4
32.5°	12378.2	10674.2	7667.6	4778.2	3975.8	3948.7	3894.7	3876.6	3899.2	3863.1	3881.1
35°	12522.4	10642.7	7104.1	4277.8	3845.1	3822.5	3791.0	3786.5	3791.0	3759.4	3732.4
37.5°	12603.5	10791.4	6459.5	4047.9	3763.9	3786.5	3714.3	3705.3	3624.2	3642.2	3655.7
40°	12743.3	10561.5	5936.6	3827.0	3714.3	3669.3	3606.2	3592.6	3538.5	3507.0	3538.5
42.5°	12540.4	10493.9	5422.8	3732.4	3642.2	3592.6	3547.6	3470.9	3452.9	3425.9	3407.8
45°	12378.2	10106.3	4963.0	3615.2	3556.6	3529.5	3443.9	3362.7	3295.1	3322.2	3281.6
47.5°	12499.9	9971.0	4507.7	3516.0	3439.4	3407.8	3322.2	3259.1	3191.5	3159.9	3150.9
50°	12986.7	10223.5	4124.5	3443.9	3340.2	3322.2	3209.5	3137.4	3074.3	3051.7	3060.7
52.5°	14149.7	10913.1	3863.1	3295.1	3245.5	3164.4	3101.3	3011.1	2970.6	2898.5	2943.5
55°	15623.7	12035.6	3795.5	3155.4	3128.3	3056.2	2970.6	2903.0	2826.3	2767.7	2754.2
56°	16097.0	12572.0	3741.4	3101.3	3056.2	3015.7	2903.0	2862.4	2740.7	2727.2	2718.1
57.5°	16480.2	13045.3	3750.4	2997.6	2952.5	2916.5	2848.9	2749.7	2668.6	2619.0	2641.5
60°	15614.7	12211.4	3579.1	2839.9	2830.8	2763.2	2668.6	2623.5	2524.3	2465.7	2452.2
62.5°	11607.3	8289.7	2903.0	2637.0	2632.5	2560.4	2452.2	2402.6	2384.6	2303.4	2303.4
65°	6684.9	5197.4	2510.8	2470.2	2434.2	2362.0	2253.9	2213.3	2168.2	2141.2	2118.6
67.5°	2853.4	2695.6	2280.9	2276.4	2235.8	2145.7	2037.5	1974.4	1915.8	1861.7	1888.7
70°	2069.0	2100.6	2060.0	2037.5	1987.9	1875.2	1780.5	1703.9	1613.8	1577.7	1604.7
72.5°	1640.8	1708.4	1767.0	1771.5	1712.9	1582.2	1478.5	1374.8	1275.7	1226.1	1248.6
75°	1244.1	1289.2	1347.8	1361.3	1275.7	1185.5	1086.4	978.2	901.5	842.9	852.0
77.5°	897.0	888.0	942.1	933.1	892.5	829.4	739.3	640.1	554.4	500.4	504.9
80°	613.0	626.6	658.1	653.6	604.0	563.5	495.8	414.7	351.6	306.5	297.5
82.5°	428.2	450.8	477.8	455.3	414.7	374.1	324.6	266.0	216.4	180.3	171.3
85°	153.3	175.8	202.8	216.4	229.9	220.9	184.8	148.8	108.2	90.2	85.6
87.5°	31.6	36.1	40.6	40.6	40.6	36.1	31.6	31.6	27.0	13.5	13.5
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)