

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: P533590

Luminaire Tested: **GALN-SA9A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32673 lumens
Efficiency: N/A
Efficacy: 119.2 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

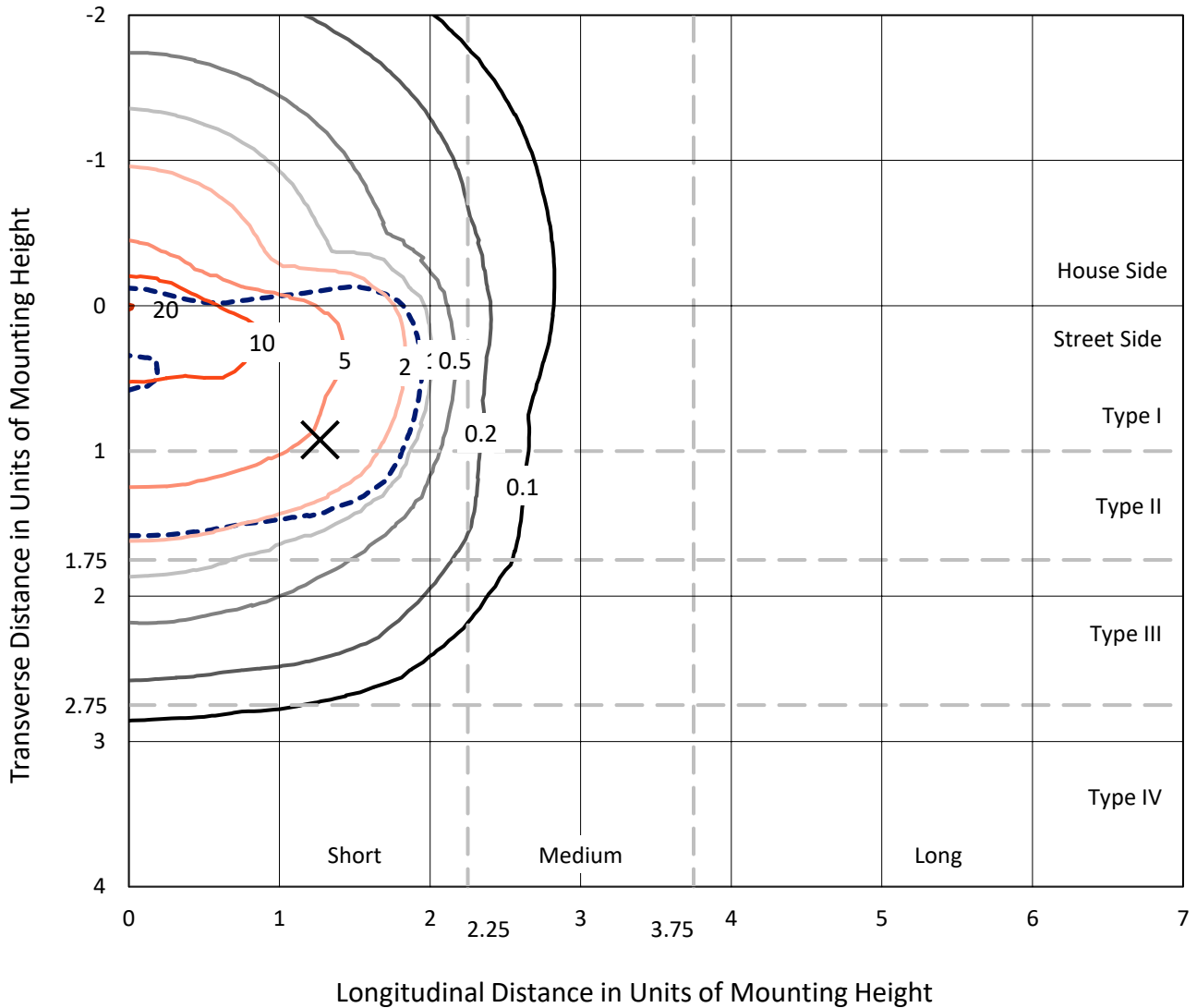
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

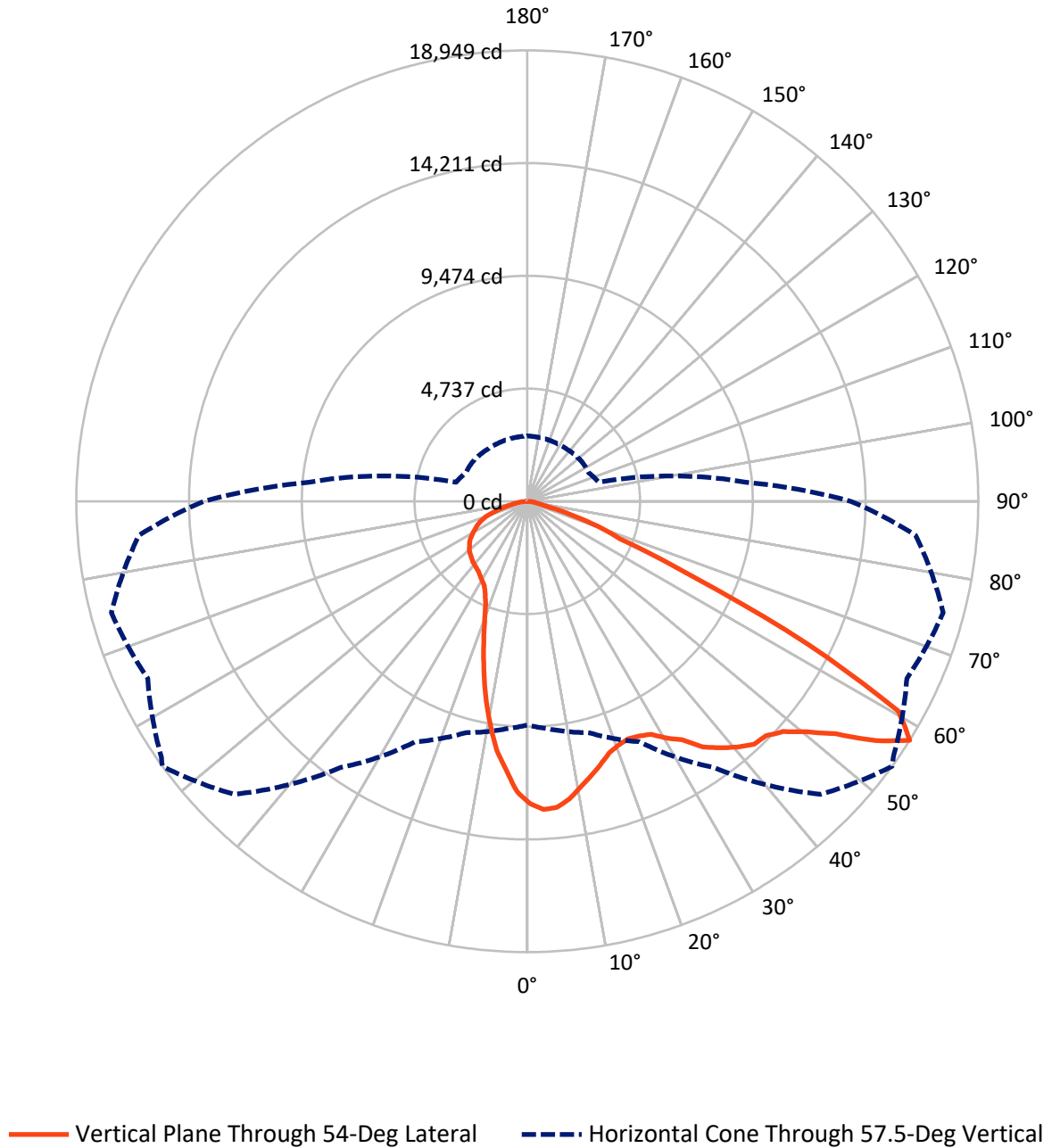
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	9039.2	0.0	9039.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23633.8	0.0	23633.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	32673.0	0.0	32673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.2	3.4
10°-20°	2535.8	7.8
20°-30°	3562.9	10.9
30°-40°	4980.9	15.2
40°-50°	6743.2	20.6
50°-60°	8213.5	25.1
60°-70°	4278.0	13.1
70°-80°	1096.2	3.4
80°-90°	167.2	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°	32673.0	100.0
0°-180°	32673.0	100.0

Coefficient of Utilization



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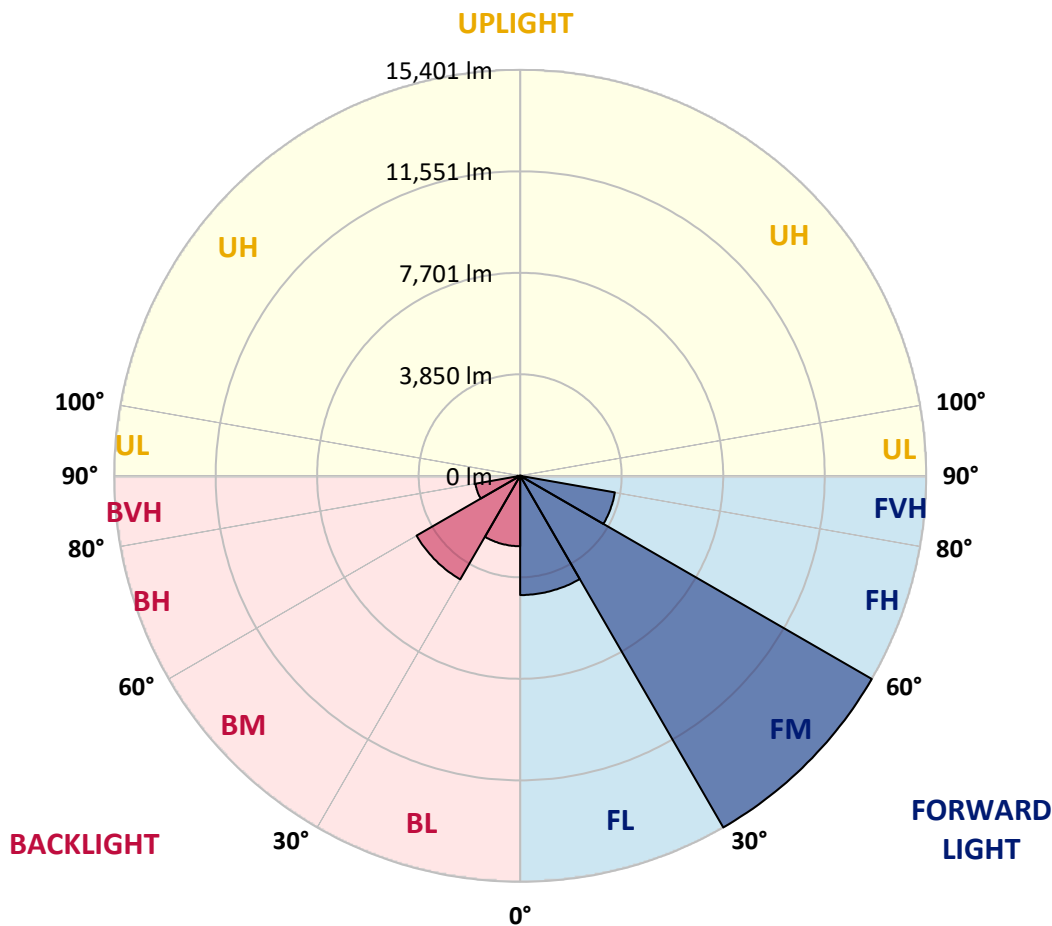
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4522.4	13.8			
FM (30°-60°)	15401.0	47.1			
FH (60°-80°)	3647.2	11.2			G2/5000
FVH (80°-90°)	63.2	0.2			G1/100
BL (0°-30°)	2671.5	8.2	B4/5000		
BM (30°-60°)	4536.7	13.9	B3/5000		
BH (60°-80°)	1726.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.0	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°	54°	55°	65°	75°	85°
0°	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6
2.5°	13060.8	13010.4	13018.8	13086.0	13002.0	12968.4	12968.4	12804.6	12817.2	12703.8	12674.4
5°	12758.4	12640.8	12720.6	12821.4	12838.2	12871.8	12926.4	12884.4	12766.8	12645.0	12447.6
7.5°	11968.9	12073.9	12103.3	12174.7	12325.9	12464.4	12636.6	12519.0	12514.8	12393.0	12275.5
10°	11276.0	11213.0	11372.5	11477.5	11729.5	11960.5	12225.1	12212.5	12275.5	12136.9	11935.3
12.5°	10587.2	10536.8	10612.4	10851.8	11204.6	11540.5	11855.5	11737.9	12073.9	12048.7	11616.1
15°	9856.5	9894.3	10003.5	10226.1	10688.0	11091.2	11490.1	11494.3	11792.5	11893.3	11313.7
17.5°	9344.1	9302.1	9440.7	9772.5	10184.1	10667.0	11120.6	11213.0	11670.7	11729.5	11221.4
20°	8962.0	9020.8	9201.3	9369.3	9843.9	10427.6	10940.0	10973.6	11645.5	11805.1	11074.4
22.5°	8869.6	8836.0	8894.8	9167.7	9558.3	10192.5	10843.4	10969.4	11641.3	11779.9	10797.2
25°	8773.0	8882.2	8878.0	9151.0	9436.5	10003.5	10923.2	11061.8	11863.9	11910.1	10835.0
27.5°	8991.4	8978.8	9096.4	9117.4	9470.1	10053.9	11091.2	11196.2	12233.5	12195.7	10864.4
30°	9209.7	9146.8	9218.1	9465.9	9629.7	10343.6	11553.1	11544.7	12712.2	12687.0	10956.8
32.5°	9478.5	9449.1	9495.3	9713.7	9990.9	10730.0	11943.7	12191.5	13199.4	13359.0	11276.0
35°	9528.9	9650.7	9759.9	10053.9	10448.6	11355.7	12678.6	12884.4	13762.1	14261.9	11884.9
37.5°	9848.1	9894.3	10150.5	10671.2	11032.4	12191.5	13144.8	13275.0	14274.5	14841.4	12527.4
40°	10188.3	10242.8	10629.2	11175.2	11670.7	12737.4	13581.5	13623.5	14438.3	15286.6	12947.4
42.5°	10650.2	10700.6	11082.8	11767.3	12430.8	13203.6	13967.9	14014.1	14425.7	15798.9	13615.1
45°	11129.0	11250.8	11700.1	12477.0	13073.4	13749.5	14056.1	14245.1	14543.2	16256.7	14156.9
47.5°	11800.9	11914.3	12283.9	13044.0	13741.1	14228.3	14463.5	14648.2	14824.6	16655.7	14505.5
50°	12514.8	12535.8	12985.2	13673.9	14186.3	14770.0	15223.6	15286.6	15194.2	17117.6	15097.6
52.5°	13039.8	13107.0	13455.6	14127.5	14891.8	15610.0	16231.5	16298.7	16118.1	17289.8	15299.2
55°	12170.5	12132.7	12699.6	13594.1	15366.4	16861.4	17764.4	17814.7	16790.0	17823.1	15958.5
57.5°	9407.1	9587.7	10070.7	11150.0	13652.9	17415.8	18948.6	18768.1	17596.4	18091.9	16378.5
60°	6837.0	6795.0	7118.3	7840.7	10289.0	15009.4	17915.5	18100.3	16937.0	16307.1	13505.9
62.5°	5568.7	5509.9	5535.1	5560.3	6639.6	9961.5	13262.4	13258.2	13044.0	11721.1	9109.0
65°	4451.6	4590.2	4602.8	4791.8	4930.3	5950.8	7685.3	8096.8	7051.1	5782.9	4195.4
67.5°	3355.5	3305.1	3473.1	4145.0	4405.4	4296.2	4195.4	4241.6	3015.3	2175.4	2049.4
70°	1978.0	1957.0	2158.6	2889.3	3628.5	3414.3	3162.3	3166.5	2070.4	1520.3	1692.4
72.5°	1083.5	1079.3	1121.3	1465.7	2062.0	2141.8	1898.2	1957.0	1234.7	1230.5	1322.9
75°	604.7	592.1	579.5	646.7	743.3	785.3	802.1	810.5	848.3	949.1	986.9
77.5°	222.6	214.2	214.2	247.8	315.0	394.8	499.8	508.2	600.5	688.7	726.5
80°	75.6	84.0	113.4	155.4	210.0	281.4	340.2	348.6	424.2	483.0	495.6
82.5°	46.2	50.4	75.6	109.2	151.2	197.4	252.0	256.2	315.0	352.8	369.6
85°	21.0	25.2	42.0	67.2	96.6	130.2	134.4	134.4	130.2	134.4	126.0
87.5°	0.0	0.0	8.4	8.4	8.4	12.6	16.8	12.6	21.0	25.2	25.2
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°	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6	12699.6
2.5°	12586.2	12540.0	12397.2	12271.3	12233.5	12065.5	11817.7	11847.1	11666.5	11750.5	11662.3
5°	12414.0	12258.7	11893.3	11737.9	11330.5	11145.8	11019.8	10704.8	10557.8	10528.4	10402.4
7.5°	11973.1	11876.5	11418.7	10998.8	10566.2	10196.7	9722.1	9398.7	9167.7	9104.8	8920.0
10°	11624.5	11410.3	10776.2	10137.9	9520.5	8878.0	8260.6	7777.7	7542.5	7269.5	7177.1
12.5°	11280.2	10956.8	10100.1	9281.1	8483.2	7672.7	6925.2	6337.2	5824.9	5703.1	5661.1
15°	11066.0	10503.2	9495.3	8508.4	7374.5	6316.2	5568.7	5182.3	4867.3	4737.2	4829.6
17.5°	10784.6	10129.5	8915.8	7601.3	6354.0	5379.7	4754.0	4514.6	4401.2	4413.8	4376.0
20°	10431.8	9776.7	8155.6	6778.2	5442.7	4665.8	4308.8	4220.6	4237.4	4266.8	4254.2
22.5°	10179.9	9348.3	7605.5	5938.2	4703.6	4271.0	4124.0	4061.0	4115.6	4140.8	4119.8
25°	9986.7	8983.0	6937.8	5194.9	4275.2	4048.4	3981.2	3977.0	4061.0	4094.6	4073.6
27.5°	9810.3	8642.8	6274.2	4628.0	3989.6	3876.2	3855.2	3905.6	3960.2	3993.8	4023.2
30°	9705.3	8382.4	5652.7	4153.4	3846.8	3792.2	3754.5	3800.6	3830.0	3863.6	3846.8
32.5°	9806.1	8197.6	5052.1	3884.6	3729.3	3674.7	3725.1	3695.7	3746.1	3775.4	3729.3
35°	10121.1	8033.9	4623.8	3741.9	3594.9	3615.9	3624.3	3611.7	3632.7	3607.5	3662.1
37.5°	10431.8	7975.1	4229.0	3620.1	3531.9	3531.9	3523.5	3498.3	3540.3	3531.9	3557.1
40°	10826.6	8012.9	3893.0	3489.9	3473.1	3464.7	3431.1	3426.9	3410.1	3414.3	3422.7
42.5°	11171.0	8096.8	3699.9	3405.9	3418.5	3435.3	3372.3	3321.9	3342.9	3300.9	3300.9
45°	11536.3	8172.4	3527.7	3347.1	3334.5	3330.3	3279.9	3250.5	3233.7	3237.9	3275.7
47.5°	12111.7	8281.6	3397.5	3267.3	3275.7	3212.7	3200.1	3162.3	3179.1	3204.3	3208.5
50°	12519.0	8512.6	3296.7	3174.9	3204.3	3162.3	3086.7	3069.9	3069.9	3111.9	3103.5
52.5°	12804.6	8836.0	3200.1	3074.1	3086.7	3053.1	3027.9	2990.1	2964.9	3023.7	3053.1
55°	13678.1	9373.5	3174.9	2990.1	2985.9	2952.3	2906.1	2868.3	2855.7	2864.1	2922.9
57.5°	13594.1	9205.5	3095.1	2843.1	2834.7	2788.5	2742.3	2729.7	2725.5	2733.9	2750.7
60°	11036.6	6799.2	2763.3	2675.2	2662.6	2654.2	2608.0	2557.6	2532.4	2557.6	2536.6
62.5°	7303.1	4552.4	2435.8	2473.6	2482.0	2461.0	2385.4	2335.0	2343.4	2372.8	2326.6
65°	3586.5	2675.2	2209.0	2309.8	2318.2	2259.4	2188.0	2129.2	2099.8	2125.0	2104.0
67.5°	2049.4	2045.2	2024.2	2129.2	2125.0	2066.2	1952.8	1902.4	1852.0	1860.4	1847.8
70°	1738.6	1772.2	1814.2	1877.2	1873.0	1805.8	1671.4	1633.6	1562.3	1553.9	1532.9
72.5°	1369.1	1427.9	1520.3	1566.5	1528.7	1444.7	1356.5	1293.5	1230.5	1192.7	1205.3
75°	1016.3	1100.3	1150.7	1180.1	1121.3	1075.1	1003.7	928.1	852.5	818.9	806.3
77.5°	739.1	764.3	810.5	831.5	793.7	747.5	705.5	629.9	558.5	512.4	499.8
80°	516.6	533.4	566.9	566.9	566.9	545.9	491.4	415.8	369.6	327.6	319.2
82.5°	361.2	378.0	411.6	394.8	390.6	365.4	331.8	273.0	222.6	193.2	184.8
85°	126.0	138.6	168.0	201.6	214.2	210.0	189.0	151.2	117.6	96.6	88.2
87.5°	29.4	29.4	33.6	29.4	29.4	33.6	29.4	29.4	29.4	21.0	16.8
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)