

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: P533624

Luminaire Tested: **GALN-SA9A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36431 lumens
Efficiency: N/A
Efficacy: 133.0 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

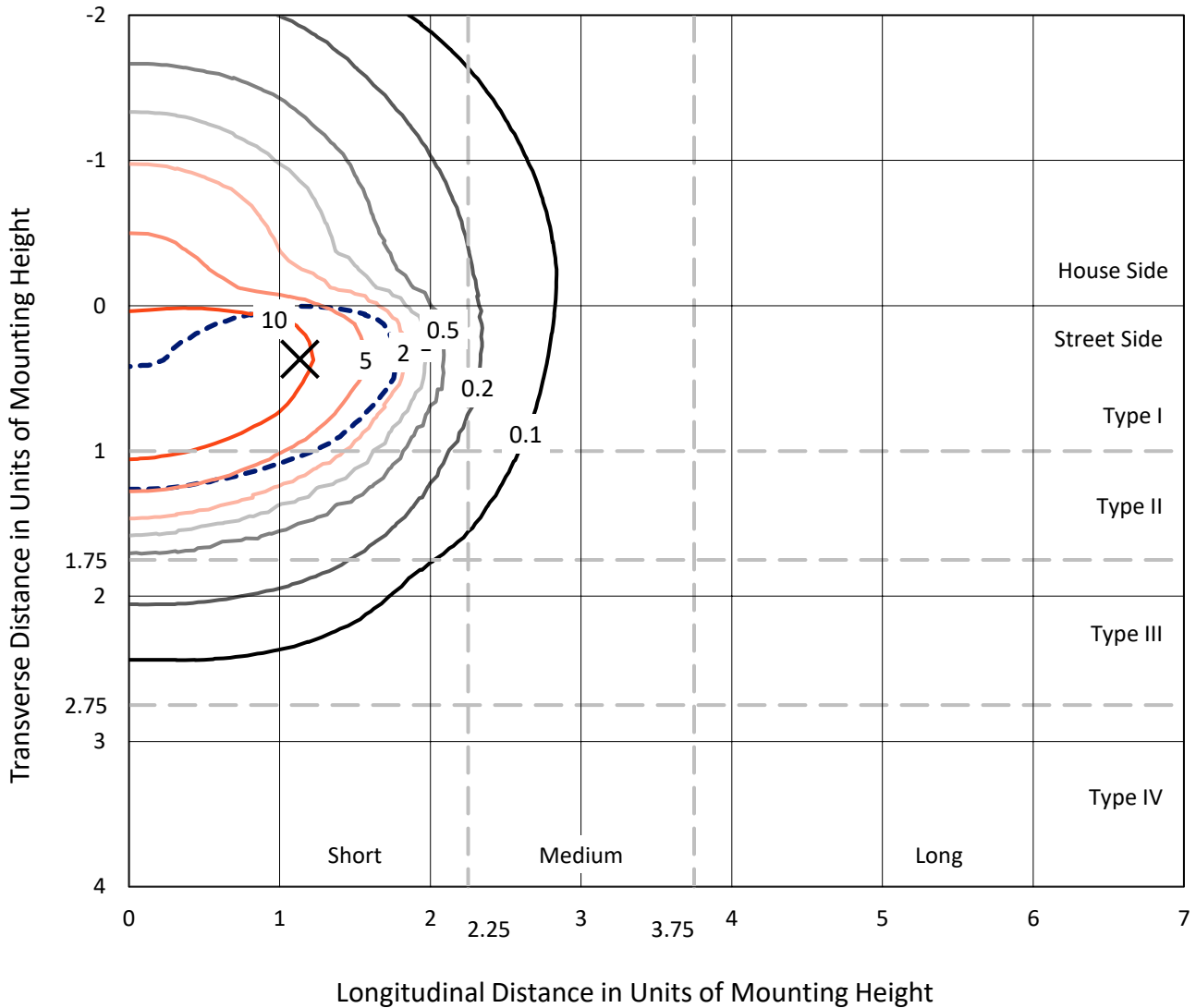
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

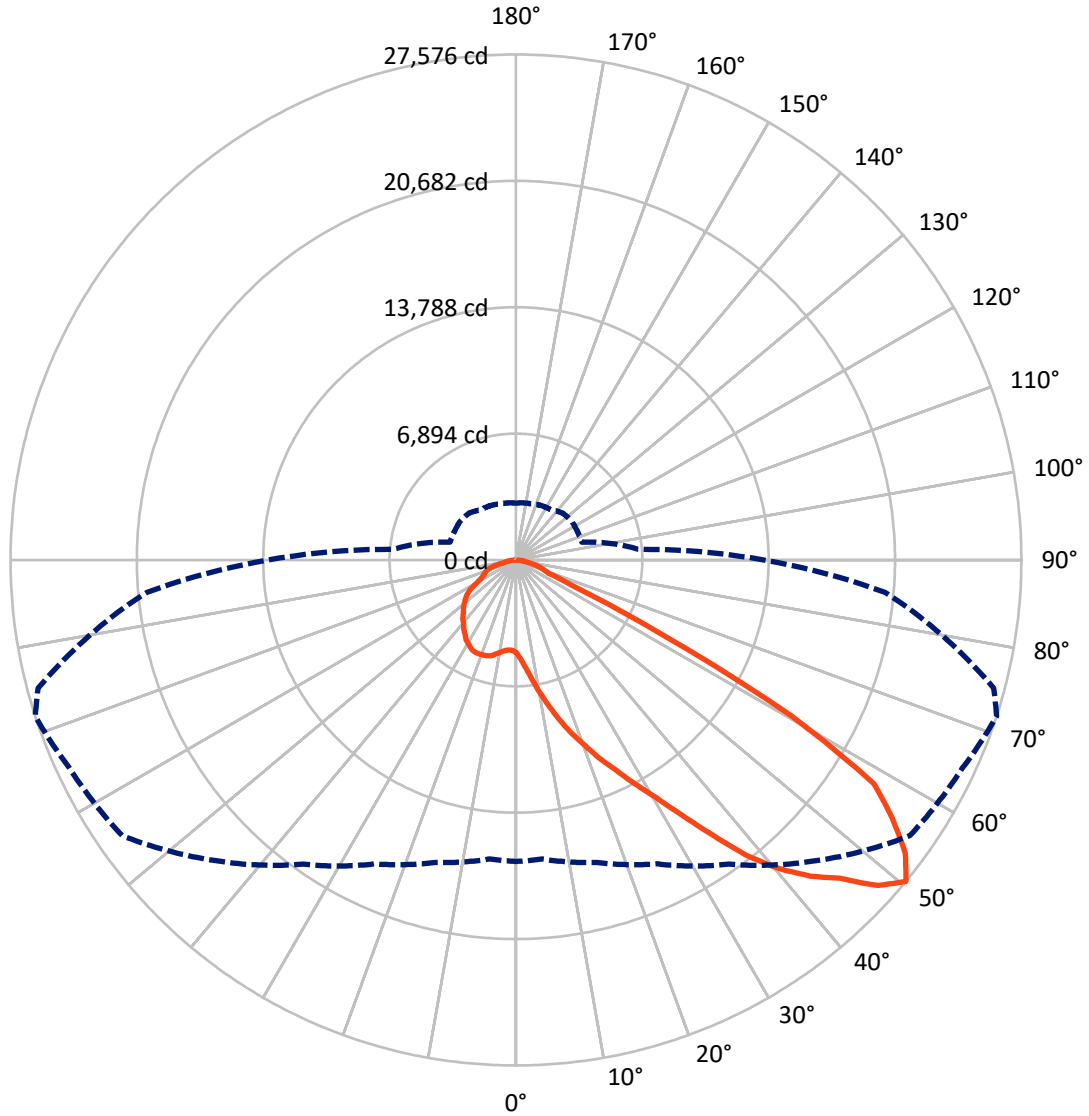
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8346.6	0.0	8346.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28084.4	0.0	28084.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	36431.0	0.0	36431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.5	1.6
10°-20°	2230.1	6.1
20°-30°	4323.9	11.9
30°-40°	7163.3	19.7
40°-50°	10022.9	27.5
50°-60°	8455.6	23.2
60°-70°	2577.3	7.1
70°-80°	904.2	2.5
80°-90°	157.2	0.4
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°	36431.0	100.0
0°-180°	36431.0	100.0

Coefficient of Utilization



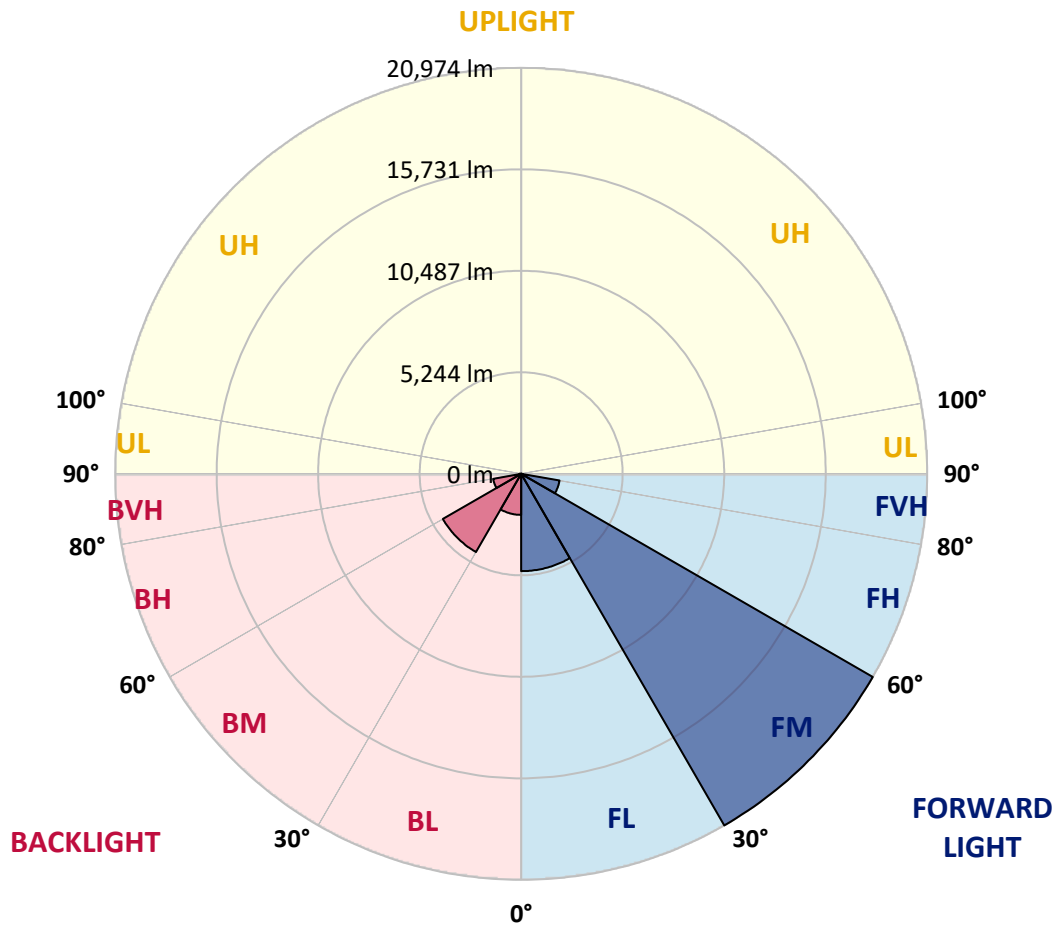
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5028.8	13.8			
FM (30°-60°)	20974.3	57.6			
FH (60°-80°)	2010.9	5.5			G2/5000
FVH (80°-90°)	70.4	0.2			G1/100
BL (0°-30°)	2121.7	5.8	B3/2500		
BM (30°-60°)	4667.5	12.8	B3/5000		
BH (60°-80°)	1470.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	86.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	6523.1	6482.5	6360.8	6320.2	6176.0	5914.5	5824.3	5558.4	5445.7	5342.0	5220.3
5°	8249.6	8060.3	8046.8	7816.9	7483.3	7289.4	6712.4	6324.7	5968.6	5788.3	5454.7
7.5°	9349.6	9354.1	9354.1	9164.8	8898.8	8407.4	7889.0	7190.3	6653.8	6387.8	5819.8
10°	10395.5	10305.3	10255.7	10237.7	10057.4	9579.5	9025.0	8159.5	7424.7	7113.6	6094.8
12.5°	11134.8	11058.1	11170.8	11112.2	10981.5	10670.4	10147.5	9160.3	8240.6	7821.4	6536.6
15°	11486.4	11540.5	11630.7	11792.9	11734.3	11617.1	11040.1	10188.1	9119.7	8646.4	6928.8
17.5°	12027.4	11878.6	11986.8	12189.6	12351.9	12297.8	11968.8	10931.9	9989.7	9408.2	7456.2
20°	12406.0	12320.4	12374.5	12608.9	12730.6	13037.2	12865.8	11905.6	10823.7	10210.6	8078.3
22.5°	13488.0	13361.7	13185.9	13222.0	13267.1	13483.4	13524.0	12974.0	11792.9	11143.8	8668.9
25°	14822.3	14705.1	14497.7	14285.9	14155.1	14114.6	14254.3	13812.5	12721.6	12049.9	9304.5
27.5°	16291.9	16093.6	15962.8	15525.6	15173.9	15119.8	15052.2	14813.3	13821.5	13095.8	10021.3
30°	17721.0	17563.2	17387.4	16688.6	16323.5	16264.9	15931.3	15998.9	15016.2	14209.2	10832.7
32.5°	18802.9	18816.4	18415.2	17887.8	17545.2	17234.1	17112.4	17306.2	16548.9	15899.7	11738.8
35°	19677.4	19718.0	19334.8	18857.0	18487.3	18703.7	18649.6	18739.8	18379.1	17585.7	12793.7
37.5°	20529.5	20326.6	19916.4	19686.5	19492.6	19848.7	20308.6	20385.2	20452.8	19519.7	14019.9
40°	20669.2	20687.2	20448.3	20610.6	20367.2	20903.6	21972.0	21872.8	22147.8	21331.9	15349.8
42.5°	20470.9	20511.4	20606.1	20836.0	21422.0	22066.7	23653.5	23247.8	23581.4	22855.6	16643.6
45°	20146.3	19979.5	20096.7	20971.2	21985.5	23419.1	25190.7	24875.2	24767.0	24158.4	18185.3
47.5°	18595.5	18766.8	19132.0	20209.4	21733.1	23653.5	26281.7	26209.5	26534.1	26105.9	19587.3
50°	16445.2	16377.6	17080.8	18293.5	20259.0	23193.7	26223.1	26876.7	27575.5	26980.4	20213.9
52.5°	12315.9	12676.5	13280.6	14786.3	17590.2	20687.2	24942.8	26033.7	26601.7	26475.5	19709.0
55°	7785.3	7893.5	8258.7	10048.3	12572.8	16603.0	21381.5	23910.5	24924.8	25398.1	19244.7
57.5°	3782.2	3579.4	4025.6	5463.7	7262.4	11166.3	16490.3	20827.0	23031.4	23887.9	18234.9
60°	1974.5	2051.1	2227.0	2740.9	3755.2	5797.3	10278.3	13880.1	17247.6	18564.0	13821.5
62.5°	1636.4	1663.5	1780.7	2037.6	2497.4	3335.9	5247.3	6766.5	8795.1	9980.7	7862.0
65°	1388.5	1402.0	1528.2	1699.5	1992.5	2348.7	2700.3	2826.5	3421.6	3511.7	2795.0
67.5°	1158.6	1172.1	1307.3	1469.6	1658.9	1753.6	1843.8	1834.8	1902.4	1875.3	1870.8
70°	892.6	906.1	1045.9	1217.2	1311.8	1257.7	1537.2	1600.3	1627.4	1649.9	1686.0
72.5°	644.6	671.7	779.9	901.6	852.0	978.2	1266.7	1361.4	1397.5	1411.0	1456.1
75°	468.8	477.8	504.9	468.8	541.0	680.7	892.6	1009.8	1054.9	1068.4	1136.0
77.5°	207.4	211.9	216.4	270.5	347.1	423.8	531.9	626.6	689.7	707.8	725.8
80°	108.2	112.7	139.7	184.8	247.9	311.1	387.7	441.8	482.4	486.9	504.9
82.5°	67.6	72.1	99.2	130.7	175.8	229.9	284.0	329.1	360.6	365.1	369.7
85°	31.6	40.6	58.6	81.1	117.2	148.8	153.3	130.7	139.7	144.3	135.2
87.5°	9.0	13.5	18.0	13.5	18.0	18.0	22.5	27.0	27.0	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°	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5	5071.5
2.5°	5152.6	5112.1	4954.3	4895.7	4742.4	4769.5	4688.3	4683.8	4665.8	4661.3	4656.8
5°	5278.9	5152.6	4963.3	4819.1	4733.4	4724.4	4665.8	4665.8	4683.8	4697.3	4665.8
7.5°	5486.2	5342.0	5021.9	4886.7	4810.0	4796.5	4755.9	4724.4	4765.0	4751.4	4715.4
10°	5725.2	5472.7	5134.6	5017.4	4891.2	4859.6	4859.6	4873.2	4805.5	4828.1	4792.0
12.5°	5991.1	5653.0	5278.9	5143.6	4994.9	4976.8	4967.8	4868.6	4904.7	4886.7	4796.5
15°	6329.2	5860.4	5463.7	5233.8	5107.6	5026.4	4909.2	4891.2	4868.6	4823.6	4783.0
17.5°	6694.4	6085.8	5549.4	5260.8	5071.5	5012.9	4922.7	4828.1	4760.5	4769.5	4737.9
20°	7005.4	6293.2	5580.9	5287.9	5044.5	4931.8	4792.0	4733.4	4661.3	4656.8	4652.3
22.5°	7375.1	6572.7	5626.0	5215.8	4963.3	4846.1	4751.4	4647.8	4598.2	4535.1	4566.6
25°	7816.9	6680.9	5635.0	5175.2	4904.7	4697.3	4647.8	4535.1	4517.0	4426.9	4444.9
27.5°	8136.9	6739.5	5562.9	5049.0	4769.5	4611.7	4521.5	4440.4	4408.8	4341.2	4323.2
30°	8565.2	6829.6	5409.6	4891.2	4634.2	4458.4	4404.3	4386.3	4296.1	4224.0	4215.0
32.5°	9052.1	6888.2	5310.4	4728.9	4494.5	4359.2	4386.3	4300.6	4187.9	4124.8	4106.8
35°	9439.8	6910.8	5062.5	4544.1	4399.8	4314.2	4282.6	4264.6	4102.3	4043.7	3998.6
37.5°	10030.3	6861.2	4855.1	4413.3	4296.1	4264.6	4237.5	4115.8	3931.0	3845.3	3782.2
40°	10720.0	6847.7	4589.1	4228.5	4197.0	4233.0	4151.9	3962.5	3705.6	3610.9	3565.8
42.5°	11382.7	6942.3	4422.4	4129.3	4088.8	4102.3	3989.6	3705.6	3579.4	3525.3	3453.1
45°	12491.7	7140.7	4147.4	3976.1	3958.0	3949.0	3813.8	3516.2	3444.1	3376.5	3363.0
47.5°	13492.5	7009.9	3971.6	3818.3	3836.3	3786.7	3498.2	3403.5	3322.4	3254.8	3232.2
50°	13551.1	6698.9	3723.6	3696.6	3701.1	3615.4	3340.4	3277.3	3173.6	3128.6	3097.0
52.5°	13244.5	6189.5	3493.7	3502.7	3516.2	3376.5	3146.6	3101.5	3015.9	2952.7	2934.7
55°	12383.5	5396.1	3268.3	3304.4	3340.4	3074.5	3002.3	2889.6	2822.0	2731.9	2736.4
57.5°	10909.4	4345.7	2952.7	3011.3	3088.0	2795.0	2740.9	2601.1	2501.9	2429.8	2420.8
60°	7312.0	3092.5	2479.4	2501.9	2673.2	2556.0	2551.5	2411.8	2276.5	2213.4	2177.4
62.5°	4314.2	2362.2	2141.3	2118.8	2114.3	2181.9	2294.6	2245.0	2069.2	1947.5	1983.5
65°	2258.5	2042.1	1992.5	1915.9	1870.8	1852.8	1938.4	1961.0	1843.8	1713.0	1704.0
67.5°	1897.9	1897.9	1857.3	1830.3	1767.1	1690.5	1636.4	1564.3	1546.2	1510.2	1465.1
70°	1726.6	1771.6	1758.1	1695.0	1640.9	1555.3	1415.5	1298.3	1185.6	1145.0	1172.1
72.5°	1505.7	1550.8	1550.8	1519.2	1447.1	1316.3	1181.1	1045.9	951.2	879.1	870.0
75°	1158.6	1181.1	1235.2	1199.1	1104.5	1023.3	883.6	743.8	653.7	586.0	572.5
77.5°	739.3	775.4	775.4	770.9	703.2	626.6	536.5	437.3	369.7	320.1	306.5
80°	491.4	513.9	531.9	513.9	468.8	410.2	342.6	275.0	225.4	184.8	175.8
82.5°	360.6	387.7	401.2	383.2	338.1	293.0	243.4	193.8	144.3	112.7	103.7
85°	139.7	144.3	162.3	193.8	189.3	184.8	148.8	108.2	81.1	58.6	54.1
87.5°	36.1	31.6	36.1	36.1	31.6	27.0	27.0	27.0	27.0	13.5	18.0
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)