

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: P533665

Luminaire Tested: **GALN-SA9A-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24199 lumens
Efficiency: N/A
Efficacy: 88.3 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

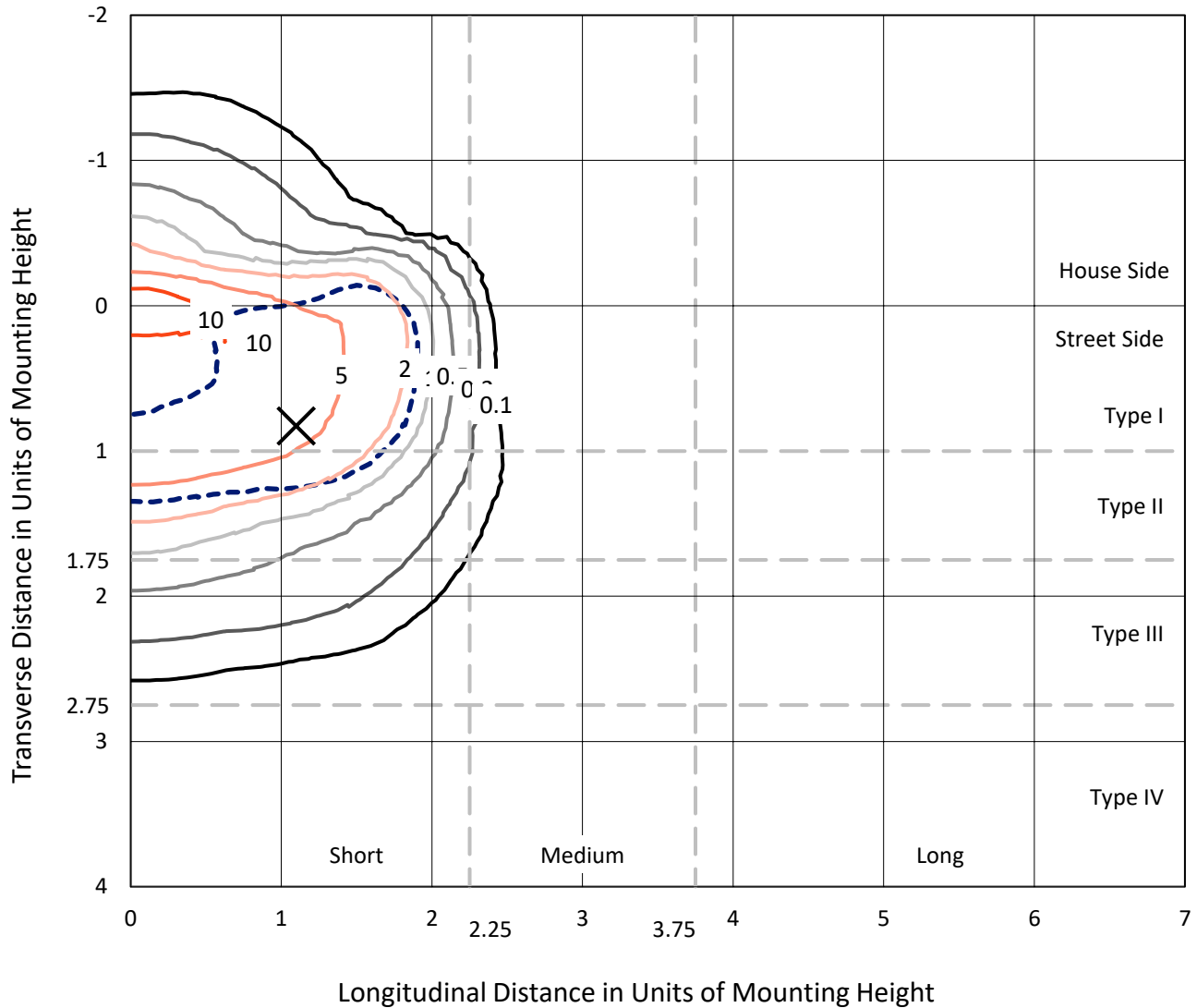
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

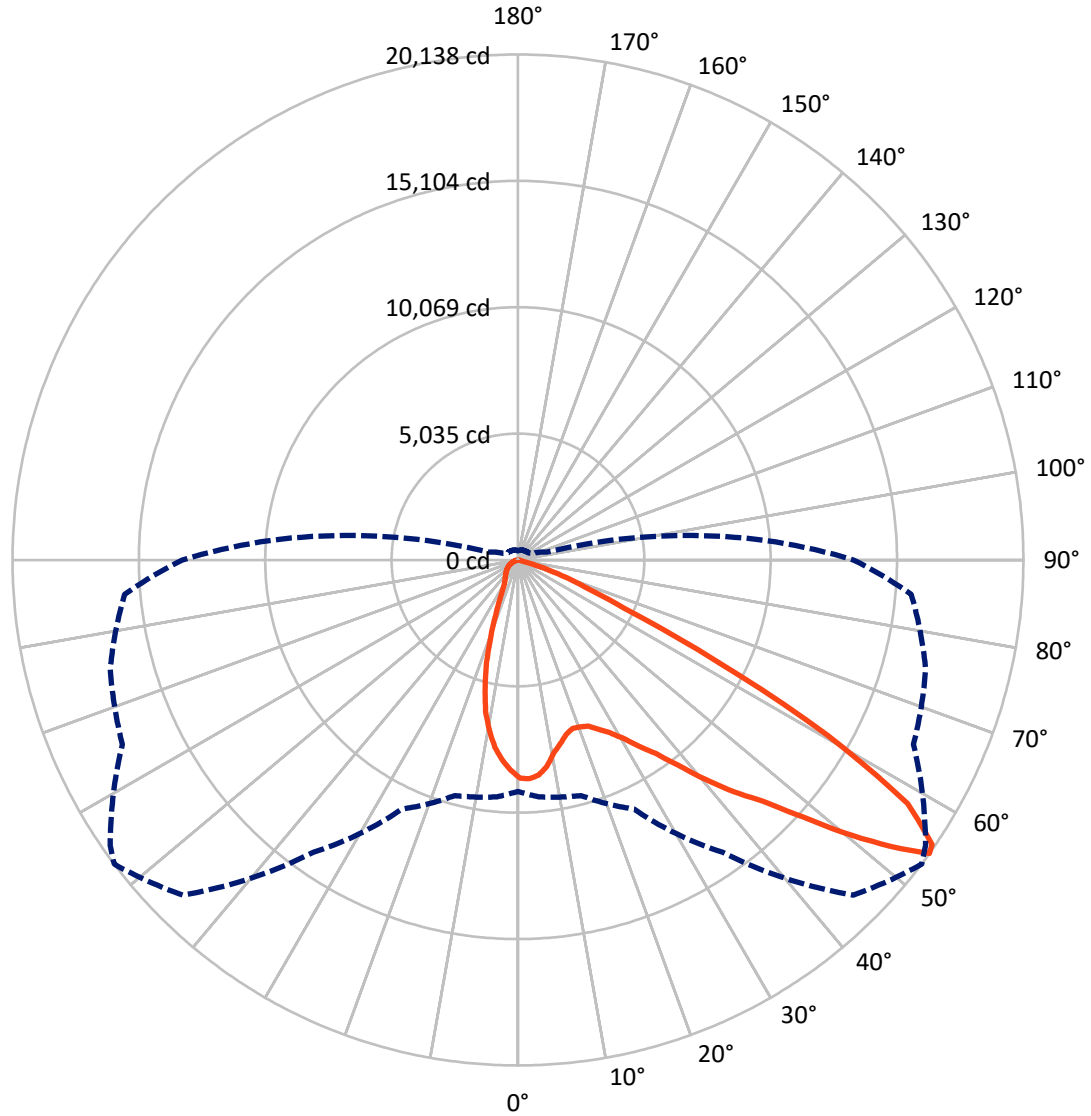
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4003.8	0.0	4003.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20195.2	0.0	20195.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	24199.0	0.0	24199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.7	3.1
10°-20°	1709.7	7.1
20°-30°	2429.9	10.0
30°-40°	3750.0	15.5
40°-50°	5879.7	24.3
50°-60°	6830.1	28.2
60°-70°	2580.8	10.7
70°-80°	245.4	1.0
80°-90°	27.6	0.1
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°	24199.0	100.0
0°-180°	24199.0	100.0

Coefficient of Utilization



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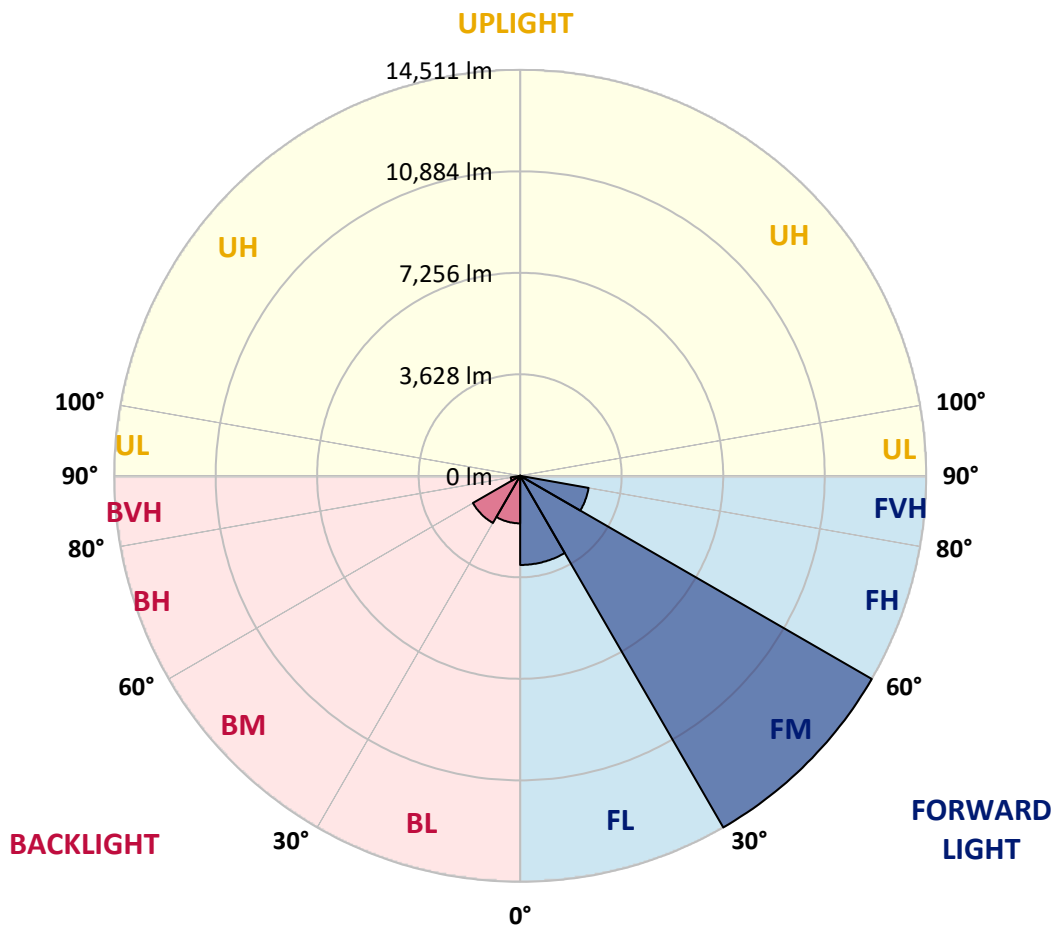
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3186.4	13.2			
FM (30°-60°)	14511.4	60.0			
FH (60°-80°)	2483.2	10.3			G2/5000
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1699.0	7.0	B3/2500		
BM (30°-60°)	1948.4	8.1	B2/2500		
BH (60°-80°)	343.0	1.4	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			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°	53°	55°	65°	75°	85°
0°	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9
2.5°	8646.8	8570.2	8646.8	8655.8	8709.9	8759.5	8727.9	8800.1	8759.5	8714.4	8700.9
5°	7948.0	8051.7	8056.2	8218.5	8182.4	8480.0	8610.7	8574.7	8795.6	8782.0	8750.5
7.5°	7321.4	7280.8	7334.9	7524.2	7763.2	8105.8	8295.1	8290.6	8606.2	8831.6	8809.1
10°	6739.8	6735.3	6848.0	6996.8	7199.6	7560.3	7821.8	7952.5	8443.9	8786.5	8836.1
12.5°	6347.6	6329.6	6451.3	6573.0	6893.1	7172.6	7506.2	7569.3	8132.9	8628.8	8709.9
15°	6090.6	6131.2	6140.2	6374.6	6577.5	6947.2	7208.7	7339.4	7988.6	8502.5	8813.6
17.5°	6045.5	6099.6	6104.1	6298.0	6514.4	6825.5	7055.4	7231.2	7866.9	8565.6	8818.1
20°	6135.7	6104.1	6131.2	6252.9	6464.8	6762.3	7096.0	7154.6	7826.3	8597.2	8867.7
22.5°	6392.7	6383.7	6316.0	6415.2	6564.0	6875.1	7190.6	7280.8	7943.5	8759.5	8908.3
25°	6676.7	6726.3	6663.2	6649.6	6753.3	7059.9	7479.2	7596.4	8335.7	9052.5	9034.5
27.5°	7208.7	7159.1	7159.1	7096.0	7068.9	7217.7	7790.2	7984.1	8773.0	9431.2	9178.8
30°	7718.1	7772.2	7731.6	7754.2	7573.8	7560.3	8232.0	8471.0	9548.4	10008.3	9485.3
32.5°	8525.1	8452.9	8520.6	8462.0	8223.0	7979.6	8831.6	9079.6	10486.1	10671.0	9945.2
35°	9196.8	9165.2	9453.8	9444.7	9057.0	8818.1	9467.3	9837.0	11139.8	11464.4	10486.1
37.5°	10152.5	10093.9	10423.0	10580.8	10233.7	9877.5	10378.0	10806.2	11748.5	12100.1	11040.7
40°	11135.3	11284.1	11725.9	11987.4	11617.7	11144.4	11491.5	11622.2	12154.2	12514.9	11419.4
42.5°	12379.6	12596.0	13046.8	13272.2	13240.7	12726.7	12623.1	12618.5	12447.2	12397.6	11698.9
45°	13574.3	13493.1	14187.4	14678.8	15075.5	14926.8	13714.0	13578.8	12911.6	12573.5	11771.0
47.5°	14097.2	14070.2	14543.6	15418.2	16770.6	16955.5	15300.9	14778.0	13696.0	13312.8	12163.2
50°	13421.0	13560.8	14029.6	14998.9	17072.7	18483.8	17248.5	16545.2	14611.2	14214.5	13091.9
52.5°	11212.0	11306.6	11753.0	12983.7	16044.8	19385.4	19114.9	18709.2	16292.8	15634.6	14710.4
54°	9219.3	9471.8	9715.2	10950.5	14214.5	18885.0	20138.3	19827.2	17388.3	16815.7	15729.2
55°	8029.2	8177.9	8353.8	9584.5	12947.6	18037.4	20021.1	20048.1	18123.1	17185.4	16414.5
57.5°	5865.2	5968.9	5788.6	6334.1	8890.2	14647.2	18312.4	19042.8	19114.9	17739.9	16833.7
60°	4481.2	4526.3	4323.4	4409.1	5527.1	10053.4	14164.9	15044.0	17244.0	15503.8	14259.5
62.5°	3475.8	3484.9	3480.4	3629.1	3809.5	5914.8	8858.7	9638.6	11888.2	11009.1	9683.7
65°	2560.7	2520.1	2592.2	3043.1	3250.4	3719.3	4666.0	5234.1	6460.3	5455.0	3899.6
67.5°	1659.0	1672.6	1744.7	2263.1	2786.1	2853.7	2871.7	2826.7	2831.2	1559.8	978.3
70°	996.3	1018.9	996.3	1280.3	1992.6	2046.7	1870.9	1825.8	1424.6	369.7	365.2
72.5°	590.6	559.0	500.4	550.0	829.5	991.8	892.6	888.1	559.0	216.4	216.4
75°	248.0	225.4	184.8	166.8	220.9	211.9	211.9	189.3	148.8	144.3	135.2
77.5°	49.6	49.6	36.1	40.6	54.1	63.1	76.6	76.6	90.2	90.2	85.7
80°	0.0	4.5	13.5	27.0	40.6	58.6	67.6	67.6	76.6	76.6	63.1
82.5°	0.0	4.5	13.5	27.0	36.1	54.1	67.6	67.6	76.6	81.1	67.6
85°	0.0	4.5	13.5	22.5	36.1	45.1	45.1	40.6	31.6	27.0	18.0
87.5°	0.0	0.0	4.5	9.0	4.5	9.0	9.0	9.0	9.0	9.0	9.0
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°	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9	8691.9
2.5°	8732.4	8727.9	8619.7	8443.9	8403.3	8254.6	8236.5	8146.4	8196.0	8029.2	8011.1
5°	8660.3	8606.2	8475.5	8362.8	8033.7	7799.2	7614.4	7389.0	7258.3	7280.8	7195.1
7.5°	8764.0	8624.2	8394.3	8002.1	7600.9	7190.6	6969.7	6509.9	6343.1	6095.1	6059.1
10°	8655.8	8552.1	8196.0	7546.8	6992.3	6401.7	5883.2	5373.8	4986.1	4819.3	4783.2
12.5°	8646.8	8466.5	7871.4	7150.1	6347.6	5500.0	4747.2	4111.5	3728.3	3511.9	3462.3
15°	8507.0	8290.6	7506.2	6536.9	5427.9	4373.0	3552.5	2939.4	2646.3	2520.1	2556.2
17.5°	8520.6	8196.0	7141.0	5887.8	4521.8	3209.9	2425.4	2109.9	2033.2	2064.8	2064.8
20°	8507.0	7984.1	6699.2	5139.4	3462.3	2227.1	1780.8	1668.0	1717.6	1816.8	1794.3
22.5°	8434.9	7884.9	6293.5	4350.4	2547.2	1650.0	1429.1	1433.6	1510.3	1632.0	1659.0
25°	8489.0	7664.0	5779.6	3552.5	1857.4	1316.4	1239.8	1271.3	1352.5	1442.6	1460.7
27.5°	8448.4	7506.2	5243.1	2759.0	1357.0	1131.6	1127.1	1163.1	1199.2	1266.8	1266.8
30°	8493.5	7361.9	4715.6	2051.2	1118.0	1036.9	1018.9	1045.9	1082.0	1095.5	1091.0
32.5°	8660.3	7253.7	4107.0	1532.8	987.3	946.7	946.7	946.7	942.2	960.3	964.8
35°	9025.5	7271.8	3570.5	1185.7	901.6	870.1	856.6	838.5	829.5	838.5	843.0
37.5°	9422.2	7262.8	3016.0	1009.8	838.5	811.5	779.9	752.9	748.4	757.4	743.9
40°	9598.0	7348.4	2502.1	906.2	779.9	748.4	698.8	676.2	680.7	689.8	680.7
42.5°	9837.0	7375.5	2168.5	825.0	725.8	676.2	644.7	617.6	613.1	626.6	622.1
45°	9832.5	7222.2	1816.8	779.9	676.2	622.1	581.6	559.0	559.0	568.0	572.5
47.5°	10121.0	7199.6	1559.8	739.4	640.2	586.1	536.5	518.4	513.9	513.9	504.9
50°	10792.7	7515.2	1361.5	694.3	595.1	545.5	504.9	482.4	464.3	455.3	450.8
52.5°	12104.6	8498.0	1208.2	640.2	545.5	504.9	468.9	450.8	428.3	405.7	401.2
54°	13375.9	9512.4	1199.2	595.1	504.9	477.9	446.3	437.3	410.2	378.7	369.7
55°	13948.5	10102.9	1230.7	559.0	477.9	459.8	432.8	423.8	396.7	360.7	356.2
57.5°	14421.8	10332.9	1212.7	464.3	432.8	428.3	405.7	392.2	360.7	311.1	302.1
60°	11608.7	7812.8	870.1	410.2	396.7	387.7	369.7	360.7	320.1	266.0	261.5
62.5°	7334.9	4494.7	554.5	360.7	347.1	333.6	311.1	302.1	266.0	211.9	198.4
65°	3124.2	1861.9	374.2	320.1	297.5	275.0	257.0	243.4	211.9	157.8	153.3
67.5°	811.5	662.7	311.1	279.5	248.0	216.4	202.9	180.3	144.3	108.2	103.7
70°	365.2	333.6	261.5	234.4	198.4	166.8	148.8	126.2	94.7	72.1	67.6
72.5°	216.4	211.9	198.4	175.8	148.8	126.2	108.2	85.7	63.1	40.6	40.6
75°	135.2	130.7	135.2	121.7	103.7	94.7	81.1	58.6	36.1	18.0	18.0
77.5°	81.1	81.1	81.1	76.6	72.1	72.1	58.6	36.1	18.0	4.5	4.5
80°	63.1	63.1	67.6	63.1	63.1	63.1	49.6	27.0	9.0	0.0	0.0
82.5°	63.1	67.6	76.6	72.1	63.1	54.1	45.1	27.0	9.0	0.0	0.0
85°	18.0	13.5	22.5	31.6	45.1	40.6	31.6	22.5	9.0	0.0	0.0
87.5°	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5	0.0	0.0
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)