

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: P530351

Luminaire Tested: **GALN-SA5C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21412 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

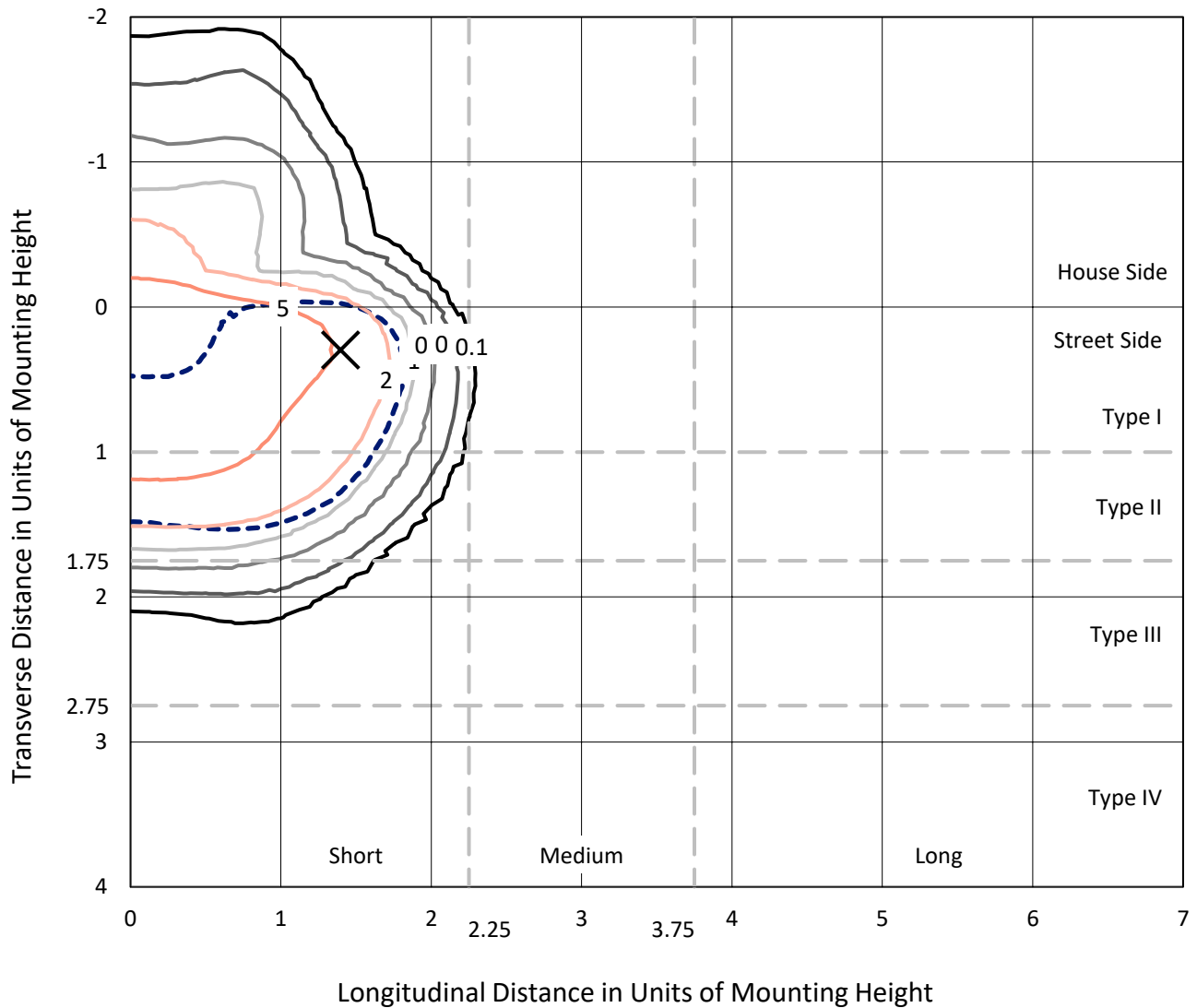
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

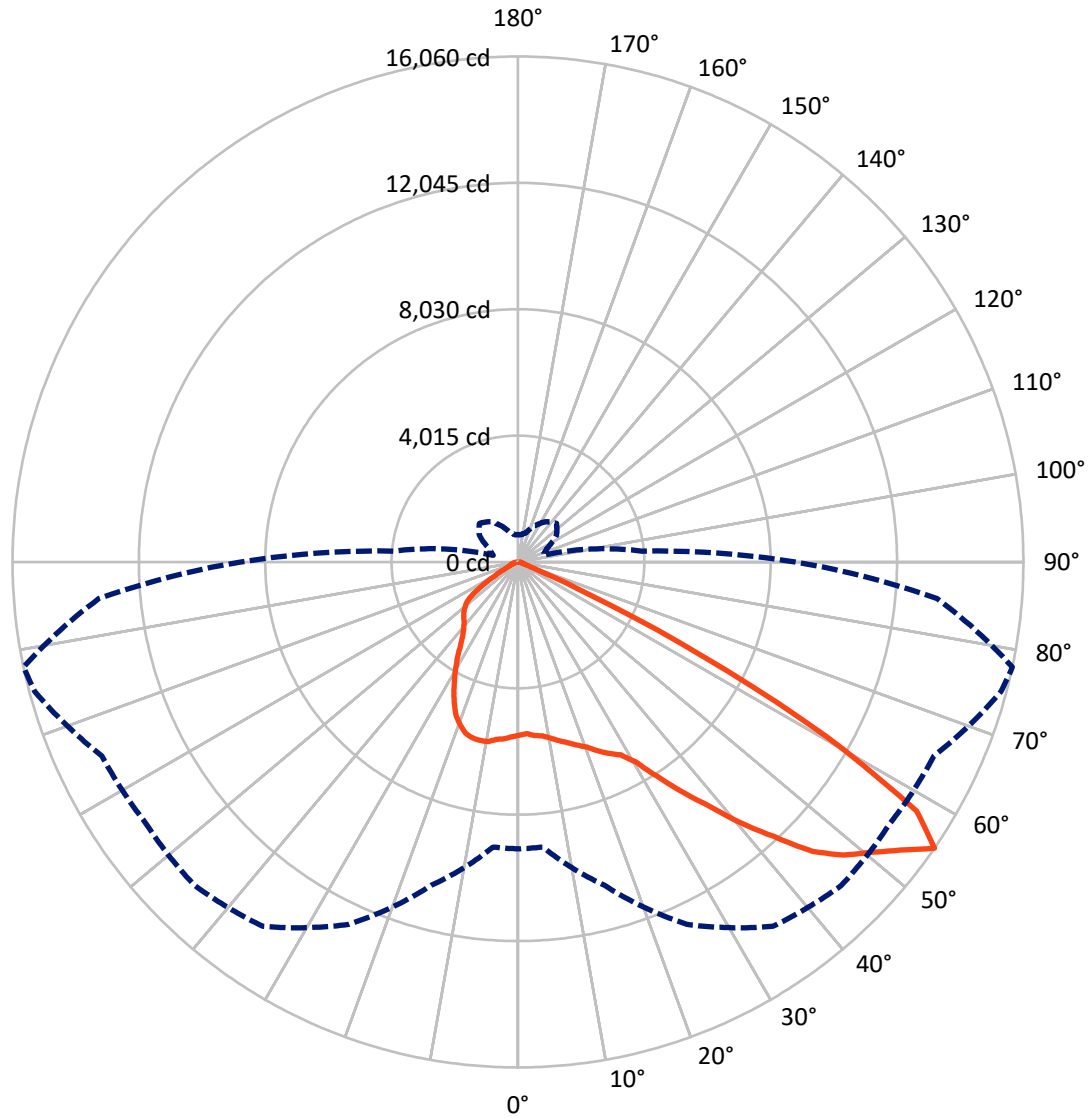
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.0	0.0	3977.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17435.0	0.0	17435.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	21412.0	0.0	21412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	2.3
10°-20°	1299.1	6.1
20°-30°	2277.1	10.6
30°-40°	3754.7	17.5
40°-50°	5463.5	25.5
50°-60°	6190.7	28.9
60°-70°	1770.0	8.3
70°-80°	137.4	0.6
80°-90°	28.6	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°	21412.0	100.0
0°-180°	21412.0	100.0

Coefficient of Utilization



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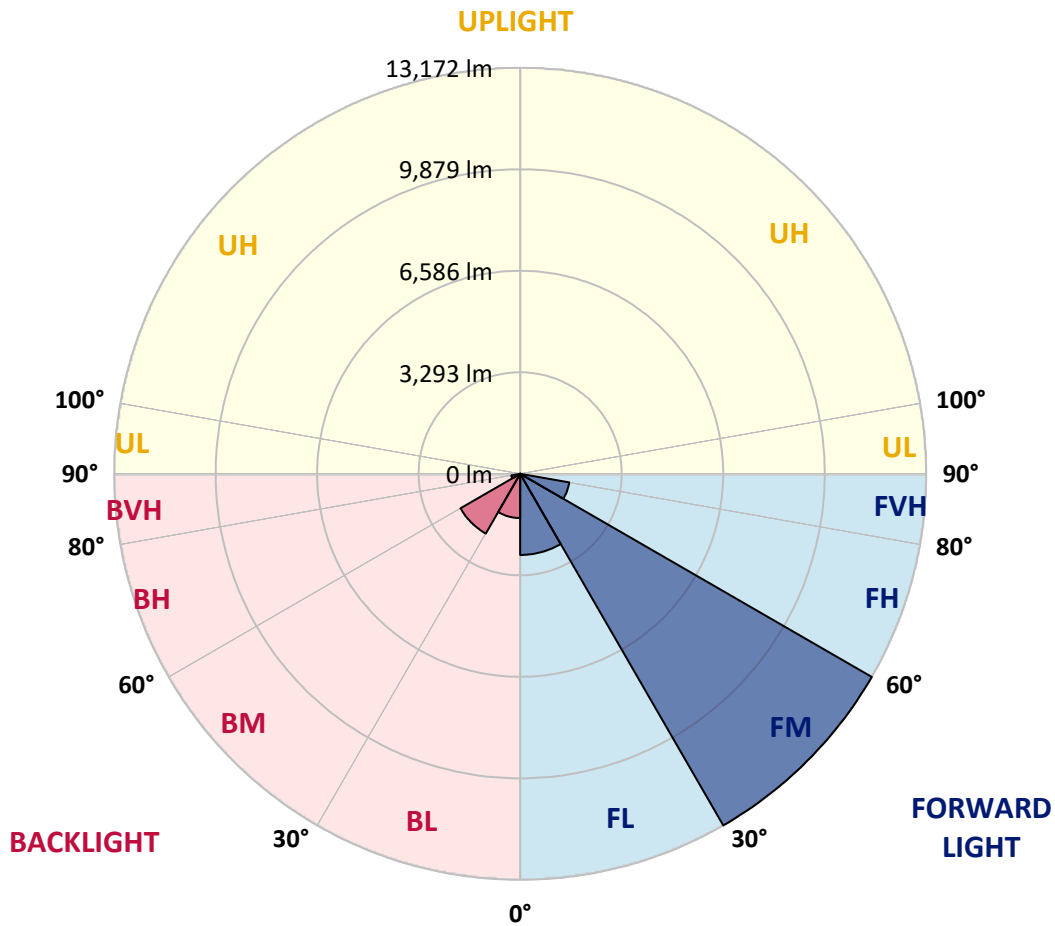
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.1	12.3			
FM (30°-60°)	13171.7	61.5			
FH (60°-80°)	1617.2	7.6			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	1434.9	6.7	B3/2500		
BM (30°-60°)	2237.1	10.4	B2/2500		
BH (60°-80°)	290.3	1.4	B1/500		G1/500
BVH (80°-90°)	14.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0
2.5°	5175.8	5225.6	5233.2	5294.5	5290.7	5394.0	5424.6	5428.5	5497.4	5462.9	5551.0
5°	5030.3	5003.5	4992.1	5099.2	5129.9	5221.7	5298.3	5344.3	5485.9	5535.7	5627.5
7.5°	4900.2	4900.2	4907.8	5003.5	4992.1	5110.7	5191.1	5332.8	5539.5	5581.6	5692.6
10°	4773.8	4727.9	4785.3	4884.9	4969.1	5022.7	5191.1	5325.1	5566.3	5688.8	5841.9
12.5°	4708.8	4731.7	4739.4	4812.1	4904.0	5064.8	5156.7	5378.7	5757.7	5830.4	5995.1
15°	5118.4	5072.4	4961.4	4896.3	4972.9	5049.5	5279.2	5505.0	5857.2	5960.6	6144.4
17.5°	5593.1	5554.8	5462.9	5286.8	5114.6	5256.2	5436.1	5642.9	5964.4	6117.6	6389.4
20°	6213.3	6152.0	6060.1	5715.6	5566.3	5413.2	5604.6	5849.6	6140.5	6278.3	6557.8
22.5°	6952.1	6952.1	6745.4	6328.1	6018.0	5872.6	5952.9	6094.6	6335.8	6523.4	6799.0
25°	7721.6	7698.6	7511.0	7078.5	6554.0	6381.7	6473.6	6573.1	6638.2	6741.6	6925.3
27.5°	8602.1	8468.1	8230.8	7752.2	7289.0	6955.9	7055.5	6967.4	6887.0	6940.6	7204.8
30°	9199.3	9283.5	8981.1	8521.7	8085.3	7713.9	7733.1	7656.5	7289.0	7365.6	7522.5
32.5°	9819.5	9873.1	9704.6	9452.0	9015.6	8583.0	8426.0	8360.9	8085.3	8119.7	7966.6
35°	10336.3	10439.7	10290.4	10179.3	10053.0	9704.6	9272.0	9482.6	9038.5	8954.3	8556.2
37.5°	10811.0	10780.4	10956.5	10841.6	10814.8	10569.8	10095.1	10137.2	9838.6	9819.5	9360.1
40°	11235.9	11243.6	11484.8	11538.4	11431.2	10994.8	10305.7	10638.7	10879.9	10902.9	10313.3
42.5°	11588.1	11691.5	11898.2	12330.8	12170.0	11442.7	10523.9	10887.6	11783.4	11925.0	11216.8
45°	11894.4	12105.0	12361.5	12748.1	12656.2	12078.2	11067.5	11400.6	12748.1	13119.4	12066.7
47.5°	11913.5	12189.2	12468.6	13042.9	13157.7	12418.9	11630.3	12212.1	13513.8	13915.7	12686.9
50°	11837.0	11982.5	12541.4	13165.4	13425.7	12974.0	12418.9	12893.6	14256.4	14509.1	13000.8
52.5°	10929.7	11040.7	12162.4	13280.2	13908.1	13601.8	13464.0	13843.0	15014.4	15202.0	13295.5
55°	9111.3	9092.1	10634.9	12702.2	14130.1	14532.1	14447.9	14581.8	15891.1	16059.6	13368.3
57.5°	6232.4	6580.8	7913.0	10577.5	12771.1	14313.9	14401.9	14179.9	14869.0	14934.0	11653.2
60°	3361.2	3506.7	4578.6	7059.3	9723.8	11664.7	11894.4	11492.4	11438.8	11255.1	8318.8
62.5°	1336.1	1408.8	2017.5	3495.2	5298.3	7089.9	7583.8	7419.2	7067.0	6584.6	4306.8
65°	635.5	681.4	1003.0	1634.7	2350.6	2955.4	3449.3	3602.4	2656.8	2392.7	1420.3
67.5°	432.6	467.0	731.2	934.1	838.4	876.7	1140.8	1060.4	624.0	532.1	394.3
70°	329.2	352.2	585.7	635.5	375.2	264.1	294.8	275.6	256.5	260.3	256.5
72.5°	233.5	252.7	428.8	375.2	164.6	122.5	157.0	187.6	187.6	187.6	183.8
75°	141.6	160.8	248.8	145.5	65.1	65.1	99.5	126.3	134.0	137.8	130.2
77.5°	72.7	91.9	84.2	42.1	42.1	49.8	72.7	88.0	95.7	95.7	91.9
80°	15.3	15.3	15.3	23.0	42.1	53.6	72.7	80.4	91.9	91.9	84.2
82.5°	0.0	3.8	11.5	23.0	38.3	49.8	68.9	80.4	91.9	95.7	88.0
85°	0.0	3.8	7.7	15.3	26.8	30.6	26.8	23.0	23.0	23.0	23.0
87.5°	0.0	0.0	3.8	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0	5505.0
2.5°	5558.6	5570.1	5551.0	5547.1	5531.8	5577.8	5466.8	5440.0	5508.9	5443.8	5459.1
5°	5631.4	5658.2	5623.7	5566.3	5482.1	5351.9	5240.9	5095.4	5026.5	4976.7	4969.1
7.5°	5685.0	5704.1	5669.7	5485.9	5233.2	4904.0	4659.0	4479.1	4337.4	4295.3	4226.4
10°	5903.2	5907.0	5734.7	5328.9	4835.1	4402.5	4027.3	3751.7	3610.0	3522.0	3483.7
12.5°	6048.7	6041.0	5692.6	5018.8	4360.4	3786.1	3357.4	3024.3	2894.2	2852.1	2825.3
15°	6232.4	6190.3	5593.1	4701.1	3747.9	3127.7	2741.0	2511.3	2499.9	2473.1	2499.9
17.5°	6377.9	6259.2	5447.6	4123.0	3162.1	2576.4	2323.8	2339.1	2369.7	2396.5	2400.3
20°	6615.2	6370.2	5114.6	3617.7	2618.5	2208.9	2205.1	2274.0	2350.6	2381.2	2411.8
22.5°	6795.2	6416.2	4758.5	3077.9	2174.5	2059.6	2124.7	2228.0	2285.5	2316.1	2362.0
25°	6860.2	6289.8	4283.8	2538.1	1960.1	1990.7	2090.2	2159.1	2231.9	2266.3	2247.2
27.5°	6925.3	6224.8	3717.2	2090.2	1845.2	1944.8	2029.0	2097.9	2120.9	2166.8	2197.4
30°	7082.3	5998.9	3208.1	1806.9	1787.8	1914.1	1975.4	1998.4	2059.6	2086.4	2086.4
32.5°	7208.6	5910.8	2668.3	1672.9	1780.1	1929.4	1937.1	1937.1	1944.8	1925.6	1918.0
35°	7468.9	5608.4	2185.9	1592.6	1776.3	1933.3	1952.4	1887.3	1711.2	1642.3	1623.2
37.5°	7790.5	5413.2	1829.9	1573.4	1803.1	1979.2	2009.8	1764.8	1535.1	1424.1	1405.0
40°	8181.0	5275.3	1596.4	1565.8	1864.4	2086.4	1994.5	1669.1	1370.5	1209.7	1202.1
42.5°	8636.6	5149.0	1439.4	1561.9	1940.9	2197.4	1979.2	1588.7	1202.1	1094.9	1110.2
45°	9000.2	5080.1	1332.2	1535.1	1967.7	2262.5	1990.7	1447.1	1133.2	1064.3	1071.9
47.5°	9283.5	4934.6	1244.2	1489.2	1963.9	2285.5	1887.3	1389.7	1098.7	1117.9	1137.0
50°	9291.2	4739.4	1133.2	1389.7	1906.5	2243.4	1768.7	1336.1	1091.1	1171.4	1209.7
52.5°	9187.8	4463.8	1014.5	1248.0	1772.5	2097.9	1661.5	1313.1	1056.6	1048.9	1094.9
55°	8820.3	3946.9	815.4	1010.7	1496.8	1730.4	1565.8	1271.0	953.2	865.2	872.8
57.5°	7128.2	2829.1	601.0	723.5	1060.4	1267.2	1412.6	1251.8	857.5	735.0	738.9
60°	4414.0	1604.0	440.2	493.8	654.6	769.5	1144.6	1163.8	765.7	620.2	612.5
62.5°	2266.3	792.4	340.7	348.4	402.0	451.7	784.8	976.2	692.9	589.6	589.6
65°	758.0	390.5	298.6	268.0	268.0	279.5	474.7	677.6	585.7	493.8	493.8
67.5°	325.4	290.9	260.3	233.5	214.4	202.9	268.0	394.3	436.4	375.2	359.9
70°	252.7	245.0	225.9	195.2	168.4	153.1	157.0	202.9	248.8	241.2	233.5
72.5°	187.6	187.6	179.9	153.1	130.2	111.0	103.4	107.2	118.7	122.5	126.3
75°	130.2	134.0	134.0	118.7	95.7	80.4	68.9	57.4	45.9	38.3	34.5
77.5°	88.0	91.9	99.5	88.0	72.7	53.6	42.1	30.6	19.1	7.7	7.7
80°	76.6	88.0	95.7	88.0	76.6	57.4	42.1	23.0	11.5	0.0	0.0
82.5°	80.4	88.0	99.5	84.2	72.7	53.6	42.1	26.8	11.5	3.8	0.0
85°	19.1	19.1	23.0	26.8	34.5	38.3	30.6	19.1	11.5	3.8	0.0
87.5°	7.7	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	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)