

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: P457711

Luminaire Tested: **GALN-SA9A-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34102 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

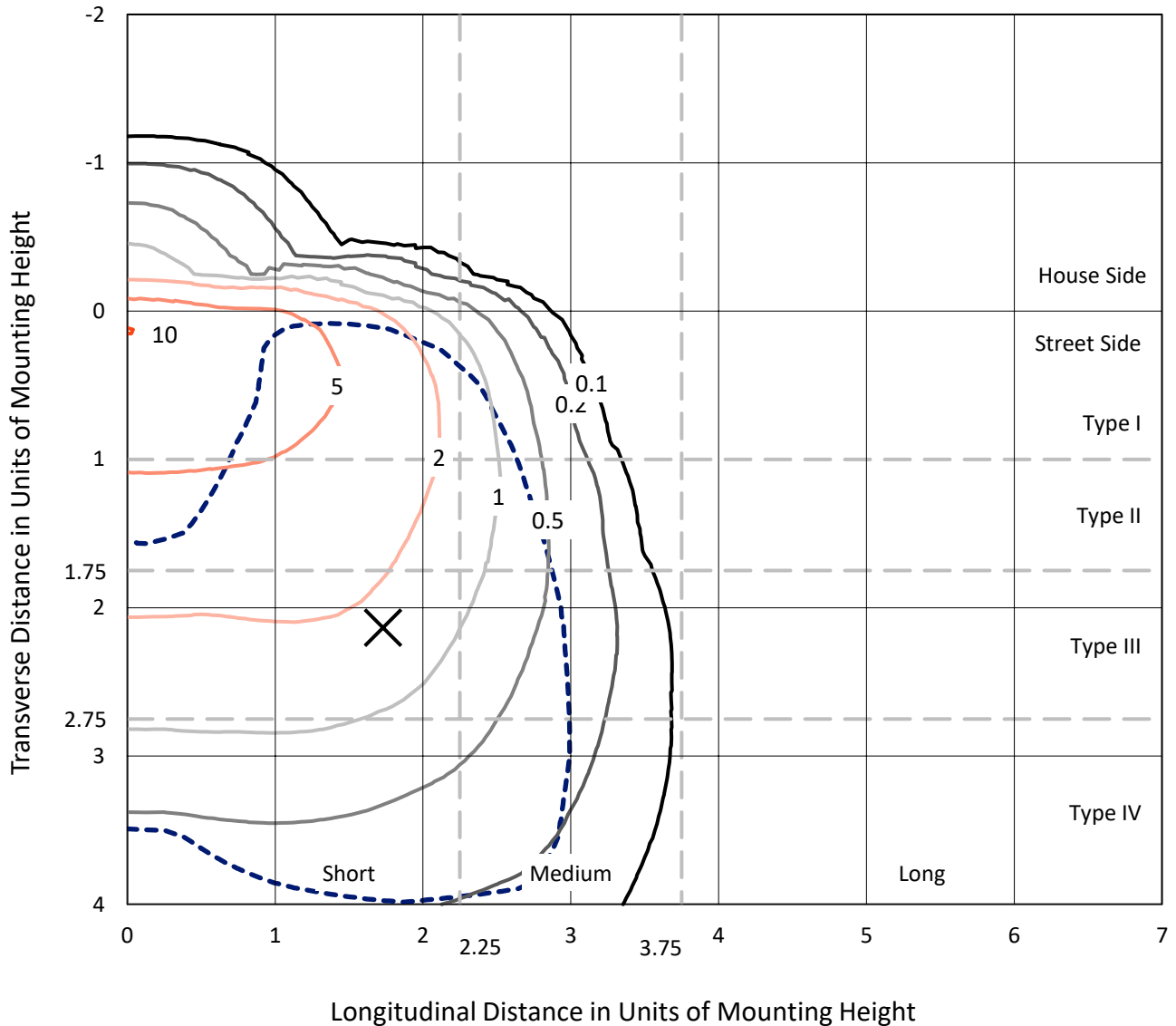
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

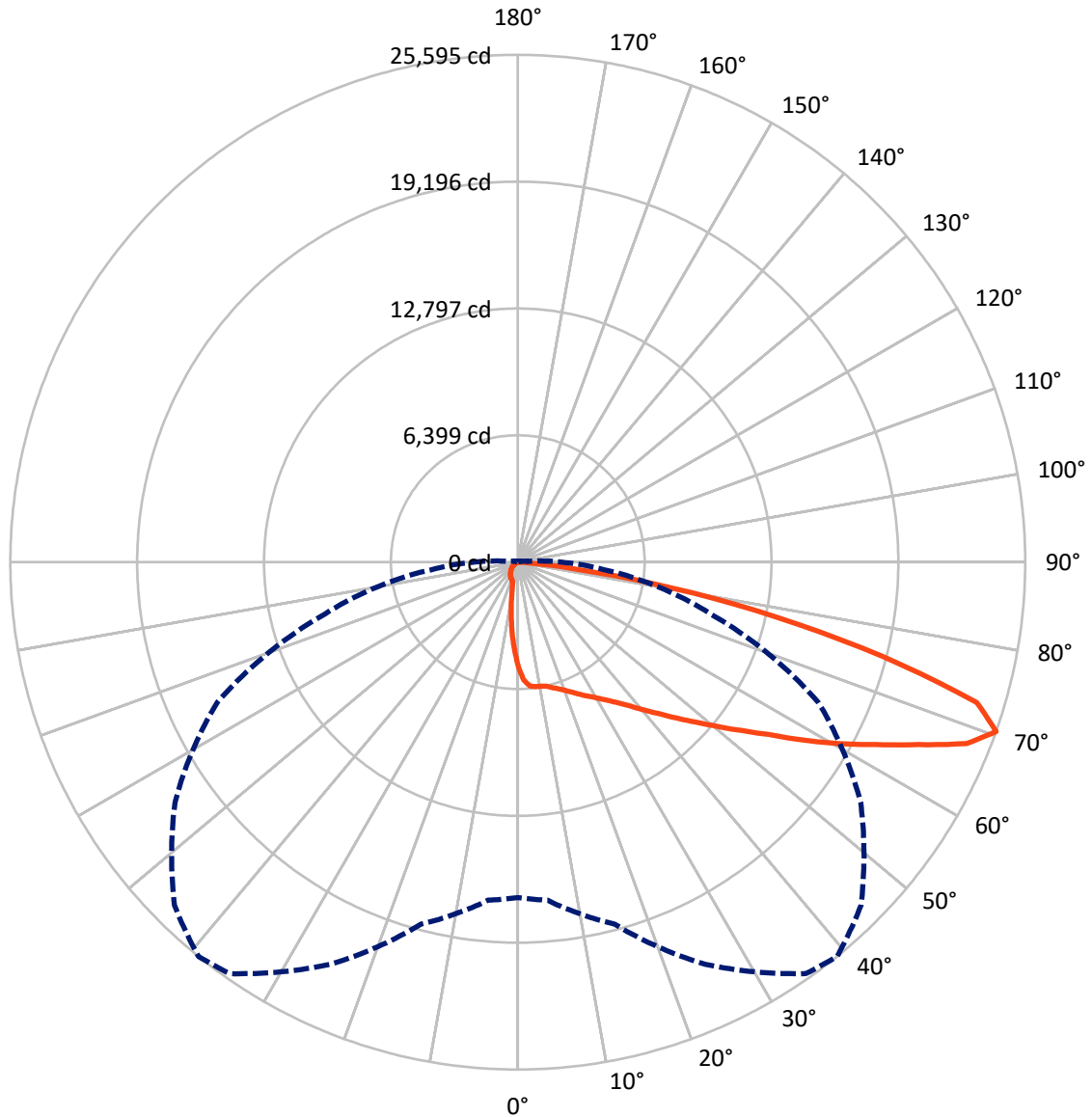
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2223.6	0.0	2223.6
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	31878.4	0.0	31878.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	34102.0	0.0	34102.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.9	1.3
10°-20°	1179.4	3.5
20°-30°	1975.9	5.8
30°-40°	3064.3	9.0
40°-50°	4856.0	14.2
50°-60°	7118.2	20.9
60°-70°	9123.9	26.8
70°-80°	5733.1	16.8
80°-90°	597.3	1.8
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°	34102.0	100.0
0°-180°	34102.0	100.0

**Coefficient of Utilization**



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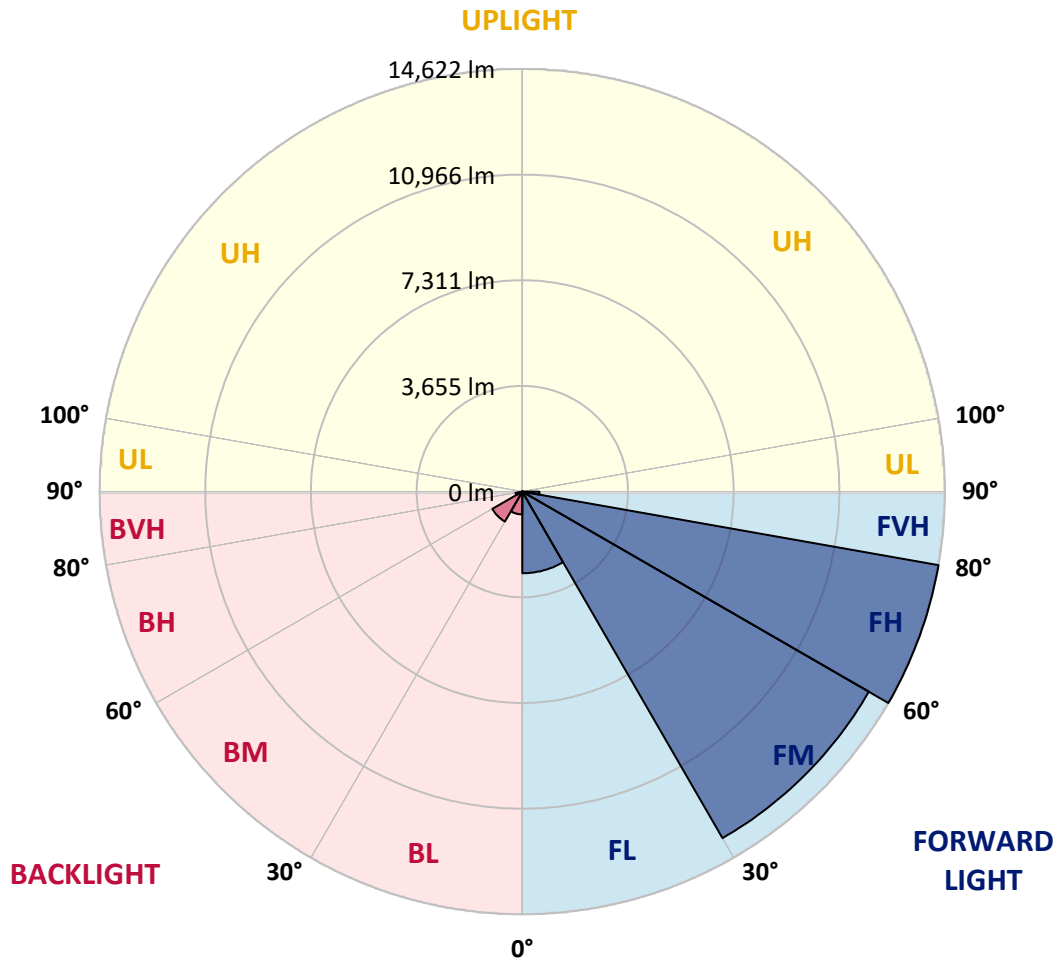
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.8	8.3			
FM (30°-60°)	13841.9	40.6			
FH (60°-80°)	14621.8	42.9			G5
FVH (80°-90°)	592.9	1.7			G4/750
BL (0°-30°)	787.4	2.3	B2/1000		
BM (30°-60°)	1196.7	3.5	B2/2500		
BH (60°-80°)	235.2	0.7	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1
2.5°	6148.3	6127.7	6100.2	6068.1	5976.5	5960.4	5905.4	5788.6	5648.8	5534.2	5376.1
5°	6439.4	6450.8	6430.2	6372.9	6306.5	6267.5	6198.8	6017.7	5836.7	5605.2	5346.3
7.5°	6505.8	6528.8	6503.5	6448.5	6384.4	6343.1	6288.1	6132.3	5921.5	5657.9	5302.7
10°	6499.0	6526.5	6510.4	6460.0	6407.3	6368.3	6308.8	6185.0	6015.4	5738.2	5316.5
12.5°	6487.5	6524.2	6521.9	6496.7	6453.1	6423.3	6386.7	6276.7	6118.6	5855.0	5392.1
15°	6455.4	6501.3	6542.5	6563.1	6565.4	6565.4	6519.6	6402.7	6251.5	6008.6	5490.7
17.5°	6469.2	6521.9	6625.0	6684.6	6725.8	6721.2	6673.1	6547.1	6379.8	6166.7	5593.8
20°	6554.0	6625.0	6769.4	6888.5	6929.8	6916.0	6851.9	6705.2	6515.0	6301.9	5694.6
22.5°	6762.5	6826.7	7007.7	7147.5	7177.3	7140.6	7048.9	6849.6	6677.7	6448.5	5816.1
25°	7074.2	7149.8	7317.1	7422.5	7422.5	7401.8	7273.5	7039.8	6861.0	6652.5	5974.2
27.5°	7452.3	7516.4	7681.4	7775.4	7720.4	7660.8	7532.5	7250.6	7078.7	6909.2	6164.4
30°	7835.0	7876.2	8050.4	8091.6	8034.3	7958.7	7821.2	7539.3	7388.1	7257.5	6439.4
32.5°	8197.0	8286.4	8430.8	8421.6	8343.7	8307.0	8181.0	7880.8	7796.0	7782.3	6824.4
35°	8559.1	8627.9	8756.2	8788.3	8719.5	8712.6	8621.0	8398.7	8401.0	8490.4	7424.8
37.5°	8870.8	8932.6	9083.9	9154.9	9168.7	9203.0	9166.4	9019.7	9228.2	9473.5	8219.9
40°	9132.0	9219.1	9411.6	9535.3	9677.4	9803.4	9810.3	9842.4	10261.8	10683.4	9258.0
42.5°	9336.0	9457.4	9737.0	9966.1	10291.5	10452.0	10580.3	10756.7	11462.6	12092.7	10481.8
45°	9601.8	9741.6	10089.9	10449.7	10958.4	11221.9	11400.7	11872.7	12874.2	13733.5	11737.5
47.5°	10041.8	10115.1	10470.3	10995.1	11664.2	12040.0	12388.4	13103.3	14388.9	15158.9	12782.5
50°	10607.8	10655.9	10924.0	11652.8	12519.0	13014.0	13648.7	14489.8	15961.0	16341.4	13373.7
52.5°	11233.4	11249.4	11451.1	12376.9	13476.9	14100.2	14810.6	15848.7	17242.0	17184.7	13765.6
55°	11959.8	11936.9	12108.8	13162.9	14611.2	15323.9	16151.2	17239.7	18353.4	17782.8	13990.2
57.5°	12791.7	12729.8	12897.1	14205.6	16064.1	16916.5	17757.6	18440.5	19215.0	18284.6	14097.9
60°	13662.5	13538.7	13738.1	15376.6	17775.9	18584.8	19283.8	19467.1	20122.5	18683.4	13912.3
62.5°	14356.8	14359.1	14730.4	16623.2	19535.8	20243.9	20615.2	20780.2	20903.9	18596.3	12936.0
65°	15440.8	15477.4	16071.0	18353.4	21573.1	22187.2	22441.6	21905.3	20938.3	17514.7	11469.4
67.5°	16559.1	16675.9	17762.1	20736.6	23926.5	24421.5	24093.8	22123.1	20003.3	15046.6	8696.6
70°	16923.4	17115.9	18905.7	22377.4	25338.2	25594.8	24485.7	21107.9	16721.8	10060.1	4376.9
72.5°	15507.2	15818.9	18248.0	21779.3	24437.6	24215.3	21907.6	17702.6	10630.7	3820.1	1336.0
75°	10935.5	11073.0	15165.8	18066.9	19655.0	19024.8	16664.5	11412.1	4372.4	1072.5	458.3
77.5°	5646.5	5580.0	9019.7	11987.3	14017.7	13364.6	10912.6	5907.7	1656.8	446.9	284.2
80°	2919.5	2967.6	3902.6	6281.3	8556.8	7873.9	5818.4	2738.5	882.3	247.5	217.7
82.5°	1636.2	1535.4	2243.5	2743.0	4001.1	3137.2	2232.0	1938.7	385.0	149.0	206.2
85°	297.9	311.7	1230.6	1482.7	1388.7	882.3	719.6	1294.8	112.3	82.5	144.4
87.5°	4.6	4.6	238.3	426.2	270.4	123.7	226.9	185.6	22.9	32.1	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°	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1	5321.1
2.5°	5295.9	5208.8	5046.1	4885.7	4681.7	4514.4	4402.2	4285.3	4166.1	4175.3	4202.8
5°	5204.2	5053.0	4732.1	4393.0	4067.6	3774.3	3485.5	3226.6	3121.2	3024.9	3029.5
7.5°	5112.5	4899.4	4429.7	3898.0	3405.3	2905.7	2543.7	2245.8	2087.6	1968.5	1934.1
10°	5071.3	4789.4	4152.4	3421.4	2722.4	2177.0	1711.8	1468.9	1281.0	1221.4	1237.5
12.5°	5089.6	4734.4	3902.6	2990.5	2158.7	1517.0	1191.6	1067.9	1026.6	1019.8	1015.2
15°	5124.0	4695.5	3657.4	2513.9	1585.8	1127.5	1001.4	978.5	973.9	969.3	971.6
17.5°	5169.8	4661.1	3396.1	2067.0	1216.8	985.4	948.7	937.3	935.0	935.0	935.0
20°	5215.7	4622.1	3105.1	1668.3	1015.2	930.4	907.5	900.6	898.3	898.3	896.0
22.5°	5268.4	4587.8	2809.5	1310.8	935.0	891.4	870.8	866.2	863.9	861.6	861.6
25°	5344.0	4544.2	2495.5	1072.5	884.6	854.8	834.1	829.6	827.3	818.1	820.4
27.5°	5444.8	4512.1	2172.4	925.8	838.7	808.9	795.2	788.3	783.7	776.9	779.1
30°	5582.3	4484.6	1828.7	845.6	786.0	760.8	747.1	742.5	737.9	731.0	731.0
32.5°	5820.6	4496.1	1466.6	781.4	737.9	708.1	694.4	689.8	685.2	678.3	678.3
35°	6178.1	4562.6	1173.3	726.4	680.6	650.8	637.1	637.1	630.2	621.0	618.7
37.5°	6762.5	4732.1	941.8	673.7	625.6	598.1	582.1	577.5	570.6	556.9	554.6
40°	7452.3	4995.7	792.9	621.0	575.2	547.7	533.9	520.2	501.9	488.1	485.8
42.5°	8318.5	5266.1	687.5	568.3	527.1	501.9	485.8	462.9	435.4	417.1	414.8
45°	9221.4	5513.6	616.4	520.2	481.2	460.6	442.3	405.6	371.2	348.3	346.0
47.5°	9895.1	5559.4	559.1	474.4	442.3	421.7	396.4	350.6	304.8	284.2	277.3
50°	10213.6	5337.1	499.6	428.5	403.3	380.4	348.3	295.6	245.2	220.0	215.4
52.5°	10325.9	4952.1	451.4	387.3	364.4	336.9	297.9	238.3	192.5	167.3	165.0
55°	10280.1	4466.3	407.9	348.3	318.5	286.4	247.5	190.2	142.1	121.5	116.9
57.5°	10039.5	3847.6	364.4	309.4	272.7	240.6	197.1	142.1	96.2	77.9	75.6
60°	9391.0	3004.3	320.8	265.8	231.5	197.1	155.8	100.8	59.6	43.5	43.5
62.5°	8295.6	2229.7	279.6	222.3	194.8	158.1	110.0	64.2	32.1	22.9	20.6
65°	6932.1	1645.4	233.7	187.9	162.7	123.7	77.9	39.0	16.0	6.9	4.6
67.5°	4837.6	1015.2	194.8	153.5	132.9	89.4	48.1	16.0	6.9	0.0	0.0
70°	2197.6	483.5	149.0	116.9	100.8	64.2	25.2	9.2	4.6	0.0	0.0
72.5°	682.9	254.4	105.4	84.8	68.7	41.2	13.7	6.9	4.6	0.0	0.0
75°	316.2	162.7	66.5	45.8	39.0	20.6	9.2	4.6	2.3	0.0	0.0
77.5°	236.0	126.0	39.0	25.2	20.6	13.7	6.9	4.6	2.3	0.0	0.0
80°	206.2	64.2	22.9	16.0	11.5	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	185.6	32.1	13.7	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
85°	100.8	18.3	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.3	9.2	6.9	4.6	4.6	2.3	2.3	2.3	0.0	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)