

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: P453447

Luminaire Tested: **GALN-SA4C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23054 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

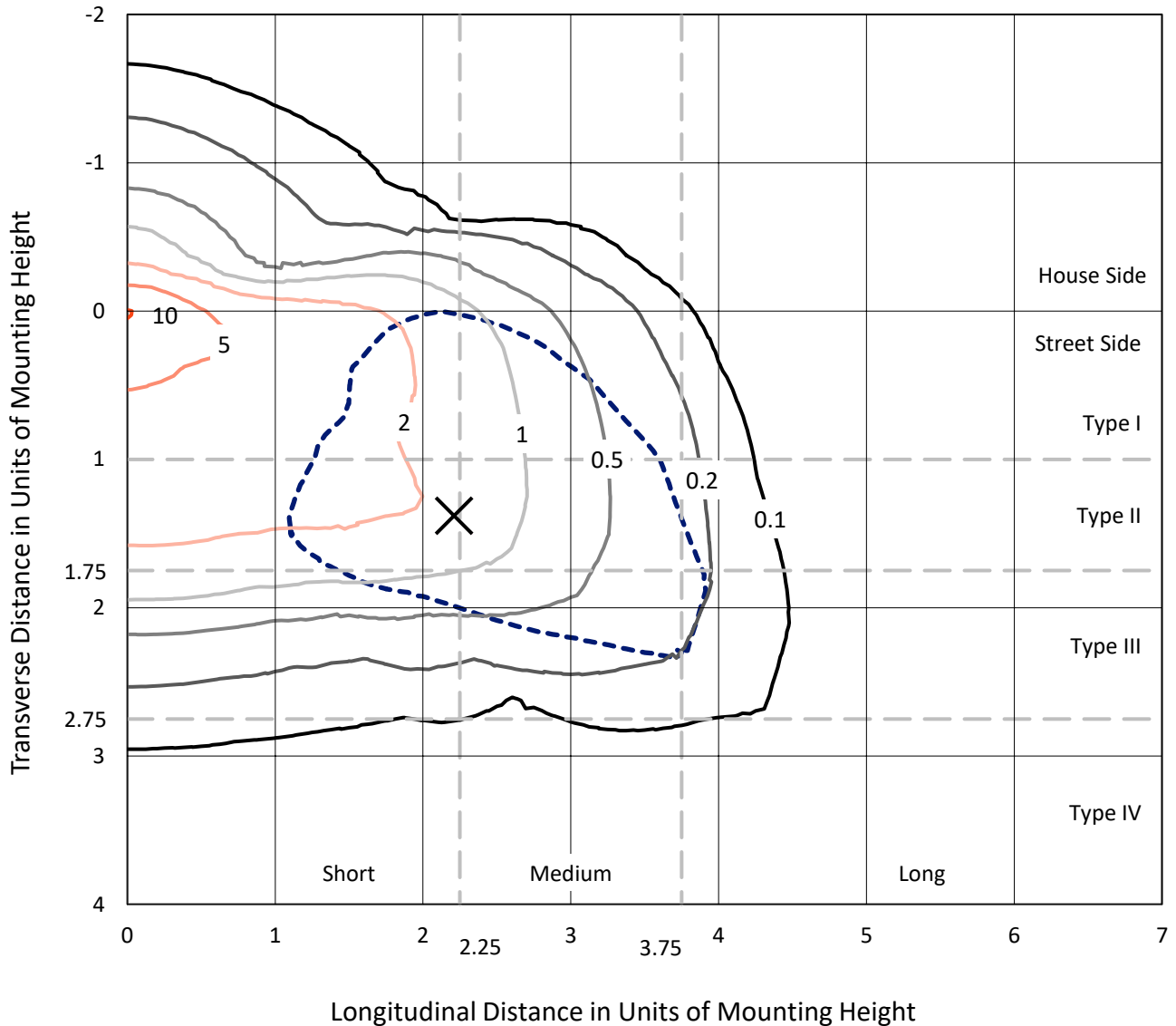
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

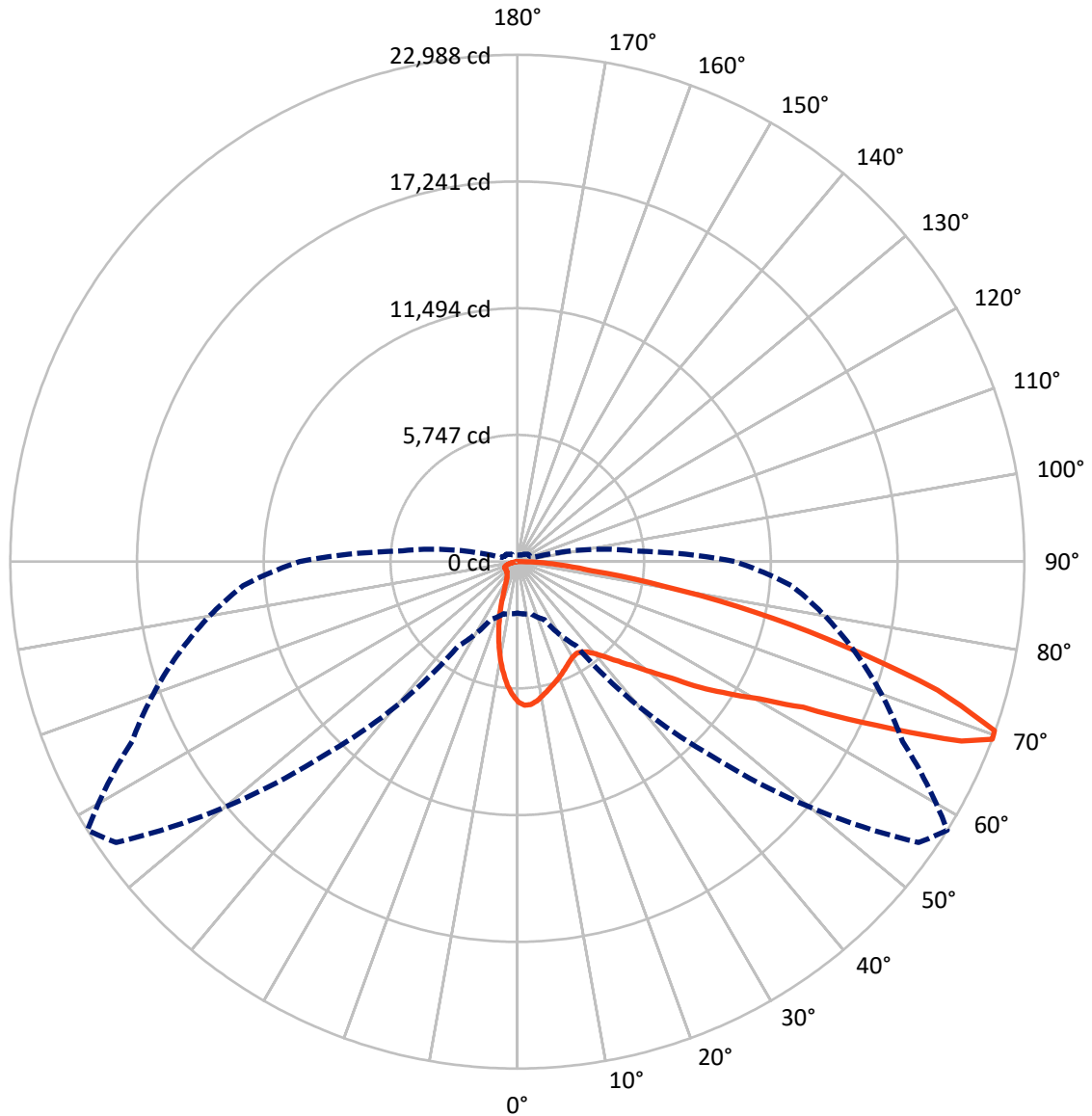
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3378.6	0.0	3378.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19675.4	0.0	19675.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	23054.0	0.0	23054.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.0	2.3
10°-20°	1188.0	5.2
20°-30°	1534.9	6.7
30°-40°	1993.6	8.6
40°-50°	2898.4	12.6
50°-60°	4624.9	20.1
60°-70°	6178.2	26.8
70°-80°	3561.5	15.4
80°-90°	533.4	2.3
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°	23054.0	100.0
0°-180°	23054.0	100.0



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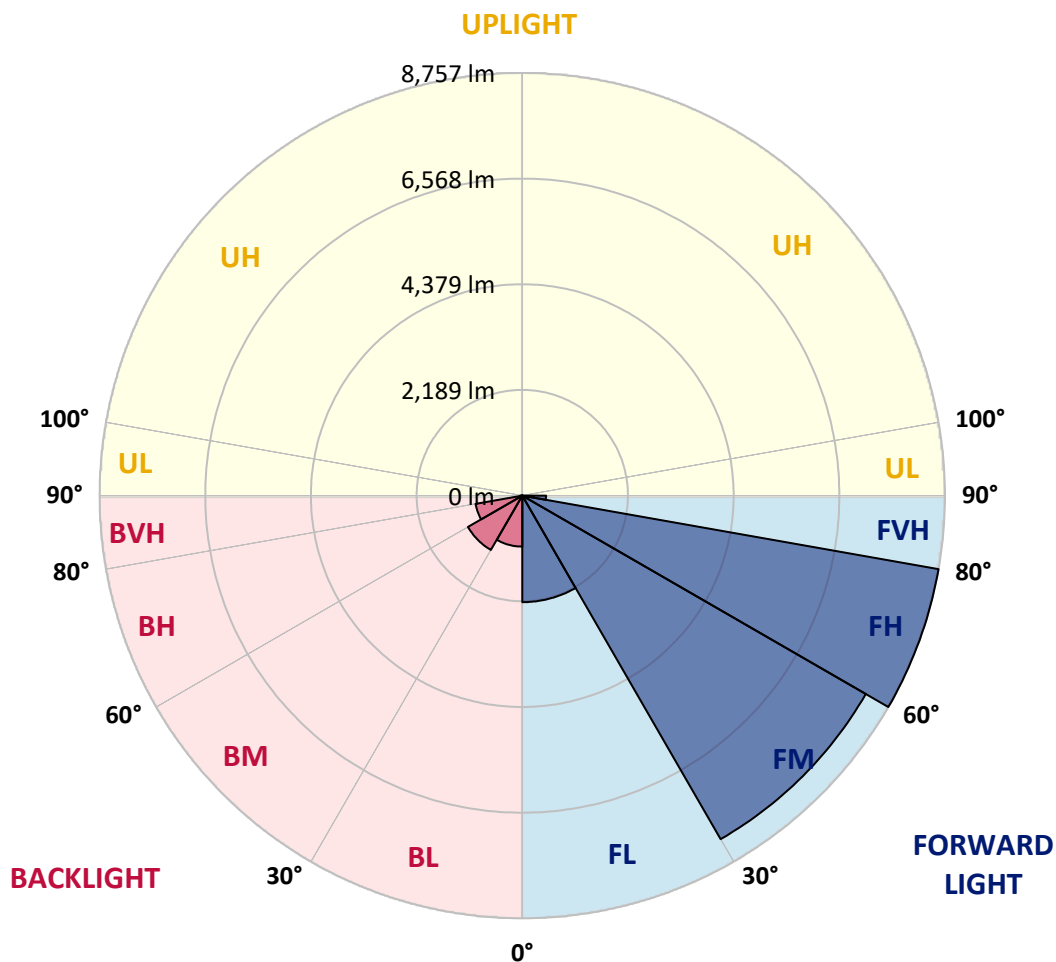
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2208.0	9.6			
FM	(30°-60°)	8217.6	35.6			
FH	(60°-80°)	8757.3	38.0			G4/12000
FVH	(80°-90°)	492.6	2.1			G3/500
BL	(0°-30°)	1056.0	4.6	B3/2500		
BM	(30°-60°)	1299.3	5.6	B2/2500		
BH	(60°-80°)	982.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	40.9	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8
2.5°	6607.3	6625.3	6620.2	6613.8	6603.5	6575.2	6528.9	6521.2	6491.6	6428.6	6350.2
5°	6505.8	6521.2	6522.5	6531.5	6544.3	6539.2	6505.8	6501.9	6458.2	6373.3	6242.2
7.5°	6157.3	6177.9	6222.9	6273.1	6318.1	6360.5	6370.8	6377.2	6350.2	6252.5	6077.6
10°	5765.2	5785.8	5806.3	5880.9	5991.5	6096.9	6184.3	6195.9	6202.3	6112.3	5898.9
12.5°	5330.6	5373.1	5416.8	5527.3	5675.2	5841.1	5995.3	6019.8	6063.5	5995.3	5744.6
15°	4961.6	5005.3	5068.3	5167.3	5346.1	5585.2	5802.5	5842.3	5928.5	5893.8	5600.6
17.5°	4705.8	4721.2	4764.9	4878.0	5070.9	5322.9	5613.5	5693.2	5830.8	5821.8	5477.2
20°	4503.9	4523.2	4550.2	4619.6	4820.2	5086.3	5437.3	5540.2	5726.6	5757.5	5355.1
22.5°	4419.0	4433.2	4429.3	4466.6	4602.9	4870.3	5258.6	5380.8	5634.1	5713.8	5241.9
25°	4424.2	4437.0	4417.8	4408.8	4489.8	4680.0	5072.2	5227.8	5559.5	5684.2	5139.0
27.5°	4510.3	4519.3	4483.3	4447.3	4453.8	4561.8	4917.9	5090.2	5496.5	5697.1	5052.9
30°	4626.0	4642.8	4619.6	4575.9	4528.3	4533.5	4818.9	4988.6	5466.9	5742.1	5011.8
32.5°	4775.2	4790.6	4780.3	4745.6	4683.9	4615.8	4794.5	4951.3	5469.5	5833.3	5002.8
35°	4932.0	4962.9	4979.6	4977.0	4926.9	4808.6	4890.9	5020.8	5531.2	5986.3	5055.5
37.5°	5109.5	5135.2	5207.2	5253.5	5207.2	5069.6	5108.2	5198.2	5667.5	6207.5	5171.2
40°	5281.8	5320.3	5425.8	5569.8	5551.8	5430.9	5439.9	5499.1	5907.9	6536.6	5397.5
42.5°	5461.8	5508.1	5691.9	5905.3	5947.8	5853.9	5878.3	5931.1	6249.9	6993.1	5785.8
45°	5693.2	5748.5	5974.8	6240.9	6408.1	6350.2	6419.6	6445.3	6707.6	7587.1	6297.5
47.5°	5991.5	6055.8	6334.8	6666.5	6903.1	6955.8	7076.6	7061.2	7274.6	8290.4	6960.9
50°	6494.2	6530.2	6793.8	7131.9	7457.2	7695.1	7826.2	7850.6	7977.9	8974.4	7702.8
52.5°	7092.1	7124.2	7314.5	7610.2	8017.8	8521.8	8845.8	8766.1	8796.9	9807.5	8570.7
55°	7764.5	7818.5	7939.4	8136.1	8664.5	9406.4	10057.0	10076.2	9734.2	10604.7	9402.5
57.5°	8285.2	8376.5	8583.5	8863.8	9533.7	10390.0	11264.3	11277.1	10840.0	11455.8	10320.5
60°	8022.9	8130.9	8604.1	9286.8	10674.1	12106.4	12706.8	12633.6	11916.1	12425.3	11440.4
62.5°	6891.5	6910.8	7598.6	8665.8	11025.1	14402.7	14854.0	14544.1	13352.3	13654.4	12578.3
65°	4460.2	4586.2	5131.3	6626.6	9871.8	15676.9	18616.0	17899.9	15365.7	15049.4	13531.0
67.5°	2815.7	2783.6	3009.9	3783.9	6789.9	14554.4	21826.5	21713.4	17998.9	15930.2	13303.4
69°	2334.9	2370.9	2448.0	2900.6	4672.3	12426.5	22205.8	22987.5	19275.6	15860.7	12476.7
70°	2117.6	2134.3	2215.3	2571.5	3605.2	10408.0	21583.5	22952.8	19777.0	15570.2	11877.5
72.5°	1680.4	1679.2	1818.0	2139.4	2694.9	5941.3	17722.5	19927.5	19216.5	14217.6	9814.0
75°	1276.7	1297.3	1450.3	1810.3	2482.7	3246.5	12367.4	15346.4	15347.7	11229.5	6123.9
77.5°	920.6	933.4	1112.2	1519.7	2338.7	2631.9	8237.7	11007.1	10347.5	5145.5	1924.7
80°	603.0	610.7	747.0	1203.4	2108.6	2482.7	4884.5	6737.2	4880.6	1365.4	636.4
82.5°	330.4	369.0	456.4	779.2	1692.0	2293.7	2968.7	3409.7	1830.9	608.1	331.7
85°	165.9	176.1	257.1	455.1	1105.7	1897.7	2067.4	1955.6	945.0	302.1	172.3
87.5°	48.9	61.7	106.7	176.1	448.7	988.7	1150.7	1032.4	363.9	109.3	36.0
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°	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8	6370.8
2.5°	6318.1	6294.9	6192.1	6099.5	6014.6	5924.6	5848.8	5781.9	5788.3	5789.6	5721.5
5°	6174.1	6121.3	5925.9	5743.3	5589.1	5393.6	5226.5	5118.5	5064.5	4992.5	5018.2
7.5°	5978.6	5877.1	5605.8	5302.3	5018.2	4764.9	4489.8	4300.8	4179.9	4062.9	4078.3
10°	5776.8	5613.5	5218.8	4817.6	4449.9	4044.9	3693.9	3393.0	3169.3	3085.7	3030.5
12.5°	5569.8	5355.1	4853.6	4320.0	3812.2	3327.5	2829.9	2507.2	2260.3	2129.2	2145.9
15°	5380.8	5119.8	4473.0	3822.5	3162.9	2585.6	2089.3	1782.0	1609.7	1573.7	1594.3
17.5°	5205.9	4863.9	4116.9	3339.0	2568.9	1938.9	1569.9	1396.3	1326.9	1307.6	1306.3
20°	5025.9	4646.6	3717.0	2822.2	2001.9	1503.0	1288.3	1207.3	1194.4	1202.2	1203.4
22.5°	4843.3	4377.9	3305.6	2309.2	1594.3	1229.2	1126.3	1104.4	1114.7	1132.7	1135.3
25°	4674.9	4141.3	2909.6	1859.2	1272.9	1080.0	1029.9	1029.9	1053.0	1080.0	1081.3
27.5°	4536.0	3912.5	2514.9	1476.0	1065.9	972.0	955.3	964.3	996.4	1017.0	1018.3
30°	4421.6	3699.0	2142.0	1182.9	937.3	885.9	882.0	897.4	920.6	939.9	941.2
32.5°	4335.5	3511.3	1793.6	993.9	848.6	820.3	819.0	830.6	843.4	848.6	853.7
35°	4302.0	3355.7	1474.7	874.3	789.4	771.4	771.4	770.2	775.3	777.9	780.4
37.5°	4329.0	3236.2	1227.9	797.2	745.7	732.9	725.1	717.4	714.9	714.9	716.1
40°	4443.5	3173.2	1044.0	747.0	714.9	695.6	681.4	672.4	663.4	666.0	668.6
42.5°	4686.5	3184.7	919.3	713.6	687.9	660.9	640.3	630.0	623.6	631.3	630.0
45°	5073.5	3300.5	839.6	690.4	660.9	626.1	606.9	596.6	596.6	608.1	612.0
47.5°	5614.8	3521.6	797.2	672.4	640.3	599.1	579.9	572.1	574.7	594.0	595.3
50°	6275.6	3906.0	789.4	663.4	630.0	579.9	558.0	550.3	556.7	577.3	579.9
52.5°	7004.6	4401.0	826.7	664.7	621.0	568.3	540.0	528.4	534.9	551.6	556.7
55°	7868.6	5020.8	923.2	669.9	608.1	561.9	527.1	501.4	509.1	520.7	522.0
57.5°	8750.7	5802.5	1092.9	671.1	597.9	550.3	505.3	471.9	471.9	479.6	483.4
60°	9828.1	6653.6	1316.6	672.4	599.1	533.6	475.7	438.4	433.3	437.1	438.4
62.5°	10897.8	7365.9	1353.9	668.6	612.0	516.9	443.6	405.0	396.0	394.7	392.1
65°	11369.7	7233.5	1109.6	650.6	626.1	506.6	417.9	372.9	357.4	352.3	352.3
67.5°	10600.8	6118.8	834.4	626.1	617.1	496.3	393.4	345.9	327.9	317.6	317.6
69°	9878.2	5442.5	749.6	609.4	594.0	479.6	378.0	331.7	309.9	298.3	294.4
70°	9320.2	4977.0	713.6	595.3	572.1	460.3	366.4	321.4	297.0	284.1	281.6
72.5°	7437.9	3904.8	624.9	541.3	487.3	387.0	325.3	289.3	266.1	252.0	248.1
75°	4286.6	2116.3	518.1	470.6	392.1	300.9	275.1	252.0	234.0	221.1	217.3
77.5°	1319.2	817.7	375.4	371.6	288.0	232.7	219.9	210.9	198.0	183.9	181.3
80°	555.4	416.6	254.6	250.7	191.6	162.0	158.1	156.9	151.7	140.1	136.3
82.5°	304.7	235.3	177.4	154.3	115.7	93.9	97.7	99.0	95.1	83.6	75.9
85°	149.1	128.6	86.1	69.4	52.7	33.4	32.1	38.6	36.0	25.7	28.3
87.5°	29.6	36.0	23.1	10.3	5.1	0.0	0.0	0.0	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)