

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: STREETWORKS

Report Number: P319978

Luminaire Tested: **GAN-SA4D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27085 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

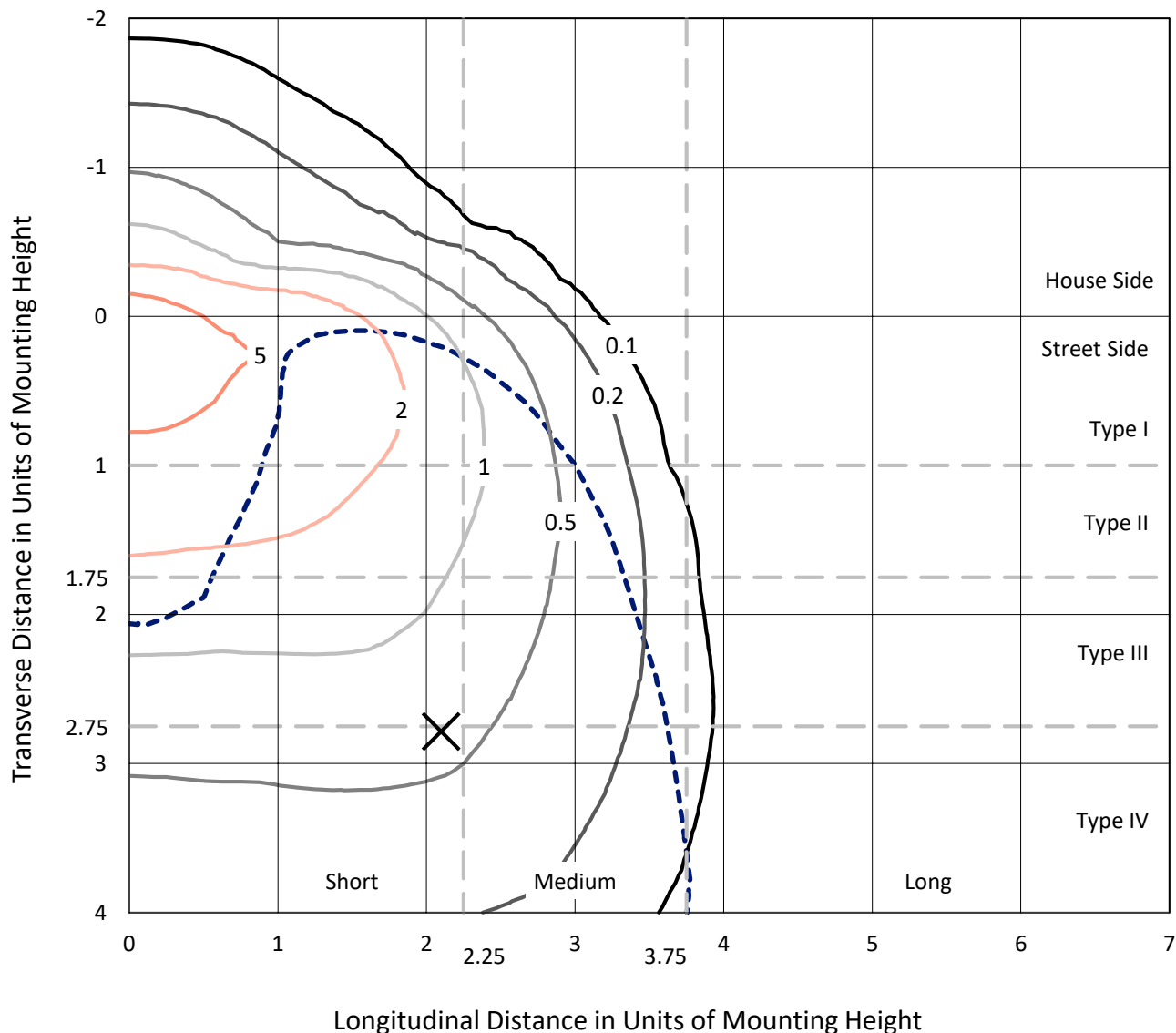
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

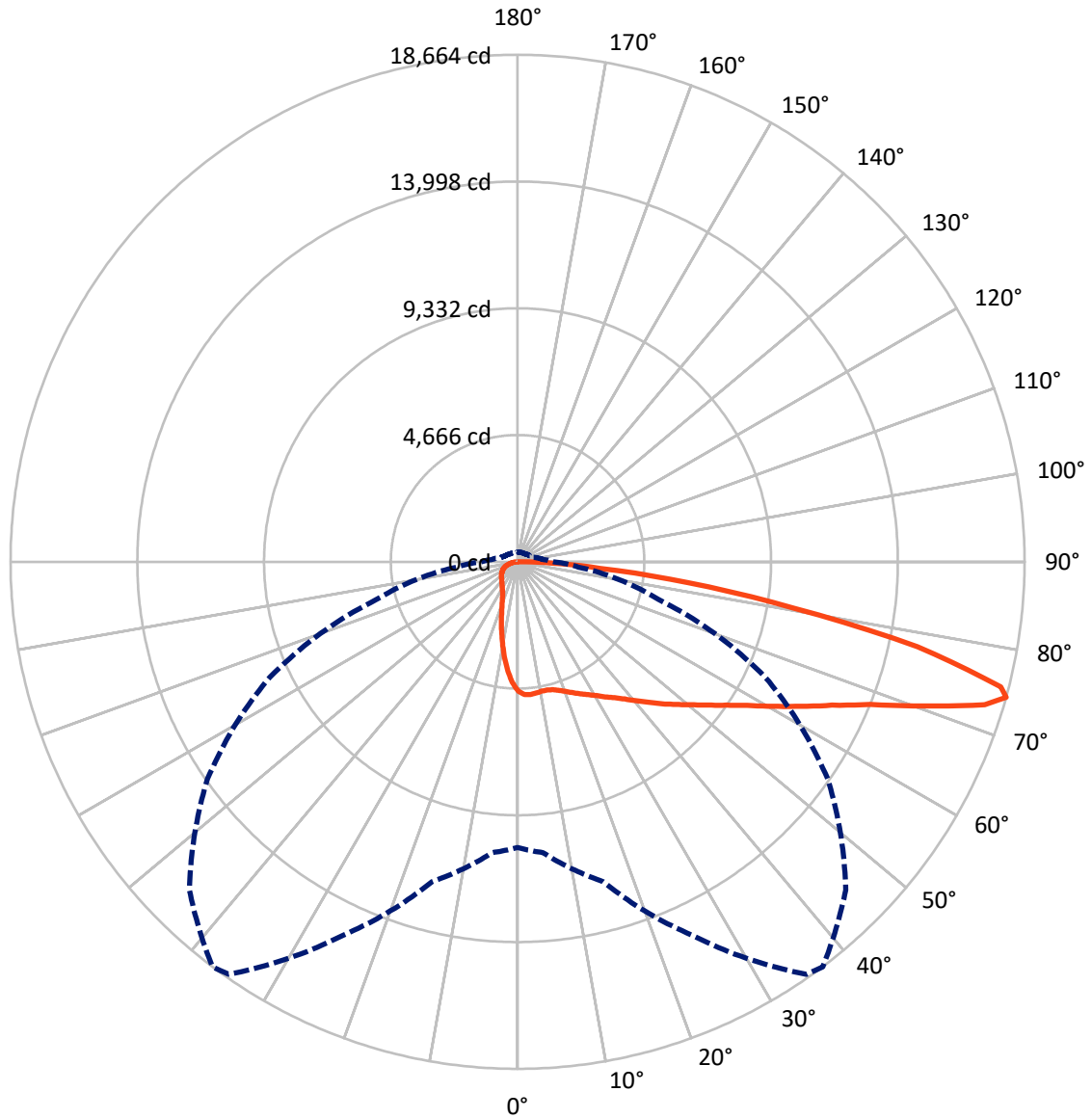
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.7	0.0	3726.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	23358.3	0.0	23358.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	27085.0	0.0	27085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	1.6
10°-20°	1077.2	4.0
20°-30°	1659.8	6.1
30°-40°	2413.6	8.9
40°-50°	3552.4	13.1
50°-60°	4988.6	18.4
60°-70°	6314.1	23.3
70°-80°	5559.8	20.5
80°-90°	1099.3	4.1
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°	27085.0	100.0
0°-180°	27085.0	100.0

Coefficient of Utilization

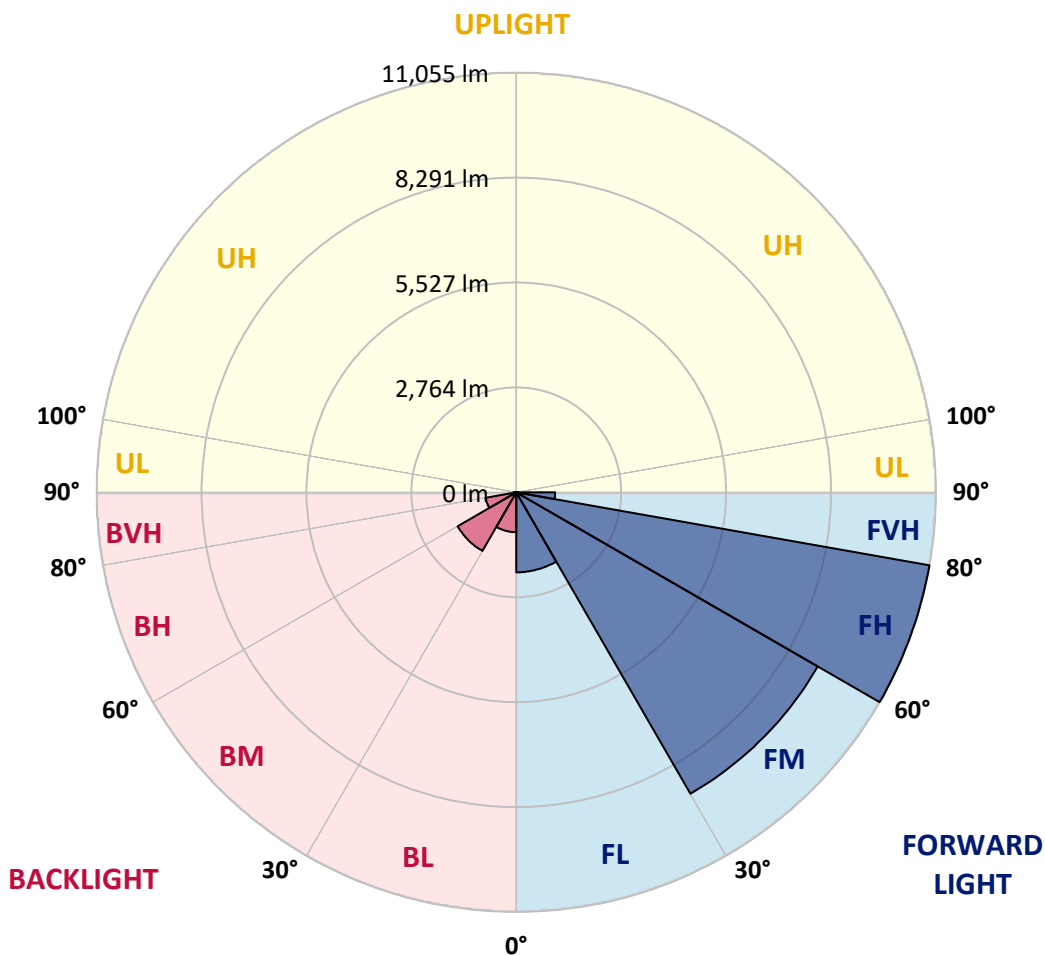


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.5	7.8			
FM (30°-60°)	9171.2	33.9			
FH (60°-80°)	11054.7	40.8			G4/12000
FVH (80°-90°)	1024.8	3.8			G5
BL (0°-30°)	1049.7	3.9	B3/2500		
BM (30°-60°)	1783.4	6.6	B2/2500		
BH (60°-80°)	819.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	74.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3
2.5°	4935.4	4936.4	4935.4	4927.8	4909.7	4894.4	4882.0	4863.9	4823.8	4793.3	4747.5
5°	4982.2	4976.4	4972.6	4958.3	4929.7	4912.5	4888.7	4854.3	4788.5	4727.4	4653.0
7.5°	4960.2	4953.5	4945.0	4927.8	4895.3	4881.0	4847.6	4802.8	4723.6	4643.5	4536.6
10°	4892.5	4890.6	4886.8	4882.9	4855.3	4843.8	4813.3	4765.6	4687.4	4590.0	4465.1
12.5°	4817.1	4821.9	4837.1	4857.2	4844.8	4839.1	4820.0	4787.5	4707.4	4602.4	4451.7
15°	4769.4	4782.8	4823.8	4876.3	4886.8	4884.9	4880.1	4859.1	4774.2	4657.8	4482.2
17.5°	4753.2	4775.1	4853.4	4940.2	4970.7	4977.4	4979.3	4943.1	4848.6	4725.5	4513.7
20°	4782.8	4810.4	4924.9	5044.2	5092.8	5096.7	5088.1	5025.1	4919.2	4783.7	4530.9
22.5°	4872.4	4897.3	5040.4	5174.9	5230.2	5236.0	5210.2	5114.8	4993.6	4852.4	4554.7
25°	5045.1	5075.7	5218.8	5353.3	5381.9	5382.9	5345.7	5227.4	5090.9	4948.8	4606.3
27.5°	5270.3	5300.8	5429.6	5561.3	5546.0	5537.4	5486.9	5368.6	5217.8	5081.4	4697.9
30°	5521.2	5554.6	5676.7	5770.2	5734.0	5716.8	5675.8	5523.1	5394.3	5262.7	4838.1
32.5°	5780.7	5811.3	5918.1	5982.0	5936.2	5928.6	5866.6	5727.3	5624.3	5539.3	5065.2
35°	6046.9	6068.9	6173.8	6210.1	6149.0	6147.1	6129.9	6002.1	5937.2	5977.3	5395.3
37.5°	6318.8	6324.5	6414.2	6416.1	6398.0	6405.6	6423.8	6343.6	6361.8	6486.7	5824.6
40°	6561.2	6576.4	6641.3	6661.3	6692.8	6719.5	6810.2	6757.7	6897.9	7119.3	6358.9
42.5°	6740.5	6770.1	6874.1	6925.6	7027.7	7069.7	7197.5	7246.2	7528.6	7860.6	6994.3
45°	6892.2	6938.0	7105.0	7210.9	7383.6	7457.0	7640.2	7803.4	8241.3	8664.9	7663.1
47.5°	7056.3	7114.5	7323.5	7525.7	7760.4	7843.4	8176.4	8420.6	9001.7	9473.9	8293.8
50°	7297.7	7342.5	7546.7	7864.4	8157.3	8264.2	8725.0	9075.1	9774.5	10244.8	8840.4
52.5°	7634.5	7617.3	7790.0	8235.6	8628.6	8760.3	9310.8	9771.6	10557.8	10942.3	9302.2
55°	7973.2	7944.6	8065.7	8623.9	9178.2	9316.5	9955.7	10470.9	11302.9	11570.0	9656.2
57.5°	8350.0	8295.7	8397.7	9061.8	9804.1	9969.1	10678.0	11214.2	12035.6	12077.6	9881.3
60°	8738.4	8664.9	8779.4	9604.7	10598.8	10793.4	11523.3	11939.3	12726.4	12484.0	9953.8
62.5°	9078.0	9026.5	9203.0	10210.5	11494.7	11708.4	12353.3	12710.2	13407.6	12652.9	9692.4
65°	9374.7	9383.3	9688.6	10891.7	12493.6	12721.6	13305.5	13660.4	13943.8	12552.7	9080.9
67.5°	9728.7	9777.3	10298.3	11788.5	13751.1	14001.0	14690.8	14696.5	14243.4	11965.0	7876.8
70°	10244.8	10345.0	11136.9	13032.6	15539.0	15882.4	16414.8	15305.2	13822.6	10371.7	6197.7
72.5°	10702.8	10889.8	12028.9	14456.1	17718.1	17978.5	17423.3	14954.1	12064.3	7772.8	3861.1
74°	10516.7	10748.6	12191.1	15157.4	18538.6	18663.6	17082.7	13929.5	10058.8	5382.9	2244.0
75°	10116.0	10367.9	11954.5	15150.7	18434.6	18364.9	16260.3	12758.8	8284.2	3671.3	1493.1
77.5°	8164.0	8430.2	10073.1	12984.9	15115.4	15049.5	12490.7	8559.0	3628.3	1204.0	758.5
80°	4746.5	4949.7	6253.0	8246.1	10192.4	10311.6	8214.6	4235.1	1427.3	676.4	514.2
82.5°	2108.5	2248.7	3020.6	4209.4	6150.9	6304.5	4301.9	2219.2	881.6	411.2	309.1
85°	1383.4	1487.4	1833.7	2004.5	2929.0	3034.0	2105.6	1727.8	582.0	226.1	227.1
87.5°	995.1	1095.3	1362.4	1189.7	1344.3	1272.7	1145.8	1599.0	233.7	128.8	76.3
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°	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3
2.5°	4727.4	4712.2	4677.8	4612.9	4576.7	4546.2	4495.6	4466.0	4452.7	4451.7	4457.4
5°	4610.1	4574.8	4486.1	4377.3	4290.5	4211.3	4113.0	4053.9	4011.9	3987.1	3993.7
7.5°	4473.6	4418.3	4279.0	4105.4	3966.1	3812.5	3660.8	3570.1	3499.5	3447.1	3456.6
10°	4380.1	4303.8	4100.6	3850.6	3618.8	3395.5	3186.6	3061.6	2962.4	2886.1	2891.8
12.5°	4348.7	4245.6	3964.2	3630.2	3304.9	2999.6	2726.7	2535.0	2432.9	2346.1	2352.7
15°	4353.4	4215.1	3849.7	3431.8	3022.5	2638.0	2306.9	2082.7	1944.4	1884.3	1885.2
17.5°	4357.3	4179.8	3729.5	3219.0	2743.0	2300.3	1940.6	1713.5	1582.8	1527.5	1528.4
20°	4344.8	4122.5	3580.6	2974.8	2451.0	1990.2	1642.0	1449.2	1350.0	1307.1	1307.1
22.5°	4328.6	4054.8	3412.7	2729.6	2162.9	1721.1	1428.2	1281.3	1224.1	1195.5	1194.5
25°	4336.3	4004.2	3241.0	2477.7	1897.7	1506.5	1286.1	1188.8	1150.6	1132.5	1131.5
27.5°	4377.3	3980.4	3082.6	2226.8	1665.8	1345.2	1190.7	1122.0	1097.2	1085.7	1085.7
30°	4451.7	3980.4	2917.6	2013.1	1473.1	1226.0	1117.2	1070.5	1053.3	1045.7	1045.7
32.5°	4581.5	4002.3	2758.2	1801.3	1319.5	1132.5	1056.2	1024.7	1011.3	1007.5	1007.5
35°	4804.7	4076.8	2602.7	1600.9	1195.5	1056.2	998.0	979.8	970.3	969.3	972.2
37.5°	5118.6	4228.5	2456.7	1453.1	1107.7	994.1	949.3	935.0	929.3	934.0	937.9
40°	5513.6	4434.5	2324.1	1319.5	1040.9	944.5	904.5	894.9	892.1	898.7	904.5
42.5°	5990.6	4713.1	2215.4	1223.1	989.4	902.6	866.3	854.8	852.0	859.6	867.3
45°	6506.8	5012.7	2139.0	1151.6	949.3	871.1	832.9	820.5	814.8	818.6	827.2
47.5°	6976.2	5296.1	2108.5	1101.0	911.1	844.4	803.3	788.1	778.5	776.6	783.3
50°	7372.1	5506.9	2122.8	1070.5	880.6	814.8	774.7	757.5	743.2	734.6	739.4
52.5°	7660.3	5639.5	2136.2	1057.1	856.8	782.3	743.2	727.0	707.9	693.6	693.6
55°	7869.2	5670.1	2106.6	1046.6	838.6	747.0	707.9	692.7	673.6	657.4	655.4
57.5°	7951.2	5584.2	1996.9	1031.4	826.2	713.6	670.7	659.3	643.0	624.0	623.0
60°	7840.6	5319.0	1785.1	998.9	810.0	686.0	633.5	625.9	618.2	600.1	599.2
62.5°	7396.0	4737.0	1511.3	933.1	777.6	656.4	599.2	603.0	603.9	591.5	589.6
65°	6589.8	3937.5	1244.1	847.2	728.9	621.1	563.9	582.0	592.5	590.6	587.7
67.5°	5418.2	3064.5	1054.3	756.6	665.0	572.4	525.7	546.7	555.3	561.9	560.0
70°	4021.4	2161.0	872.0	661.2	587.7	515.2	476.1	486.6	480.9	488.5	491.3
72.5°	2242.1	1296.6	710.8	565.8	507.6	448.4	420.7	418.8	406.4	406.4	406.4
74°	1345.2	951.2	624.9	506.6	458.9	404.5	380.7	372.1	360.6	361.6	360.6
75°	1081.9	817.6	573.4	467.5	424.6	378.8	354.9	343.5	334.9	334.9	333.9
77.5°	683.1	621.1	461.8	372.1	339.6	312.0	295.8	280.5	280.5	279.5	278.6
80°	516.2	494.2	359.7	281.5	260.5	239.5	229.0	222.3	222.3	225.2	224.2
82.5°	354.0	372.1	252.8	196.5	186.0	170.8	168.9	169.8	167.0	163.1	162.2
85°	258.6	279.5	170.8	124.0	113.5	104.0	111.6	115.4	110.7	102.1	98.3
87.5°	99.2	183.2	91.6	51.5	47.7	41.0	47.7	49.6	53.4	42.0	42.9
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)