

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: P320031

Luminaire Tested: **GAN-SA7A-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320031
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-SA7A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA 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: 31321 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

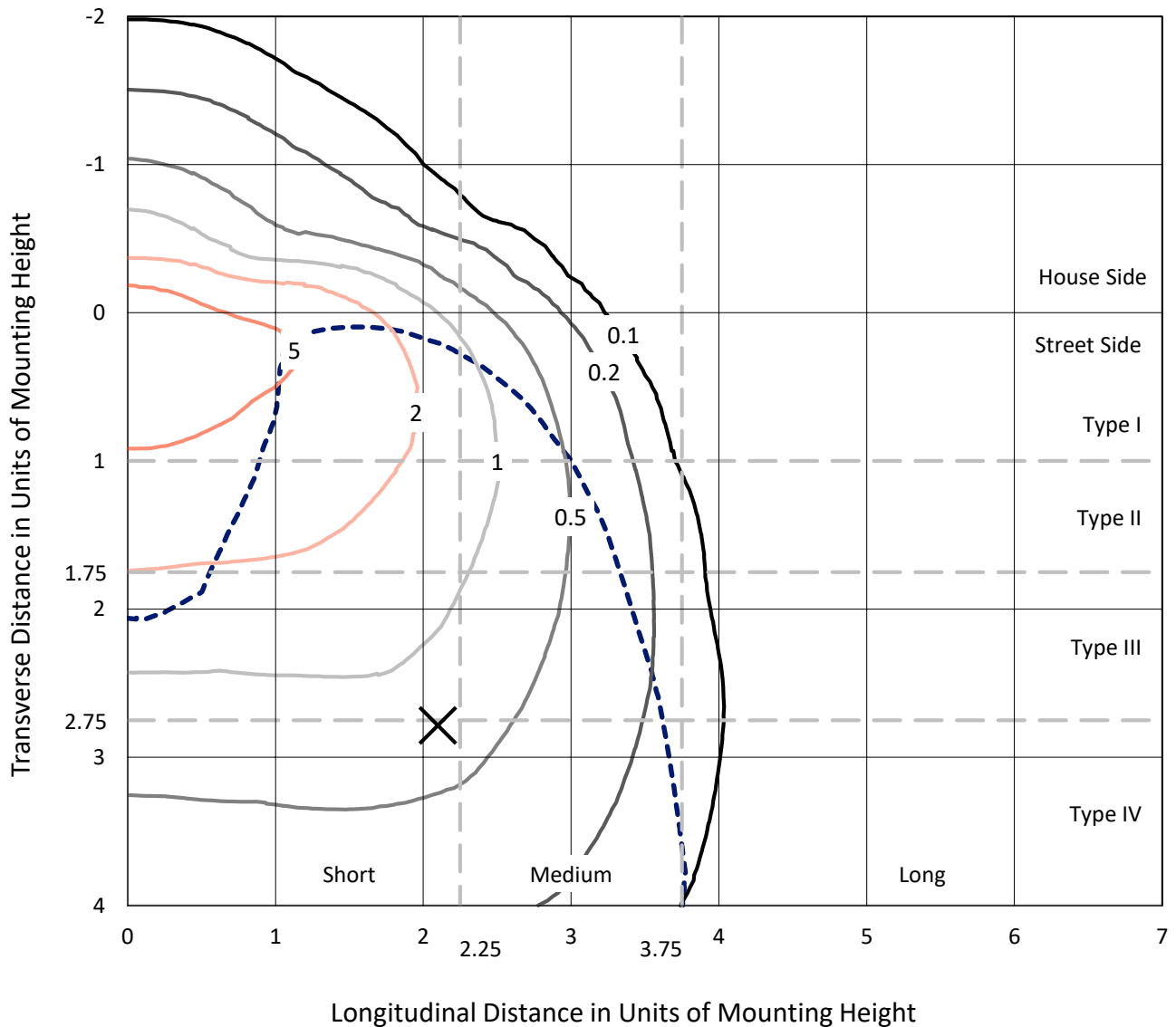
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

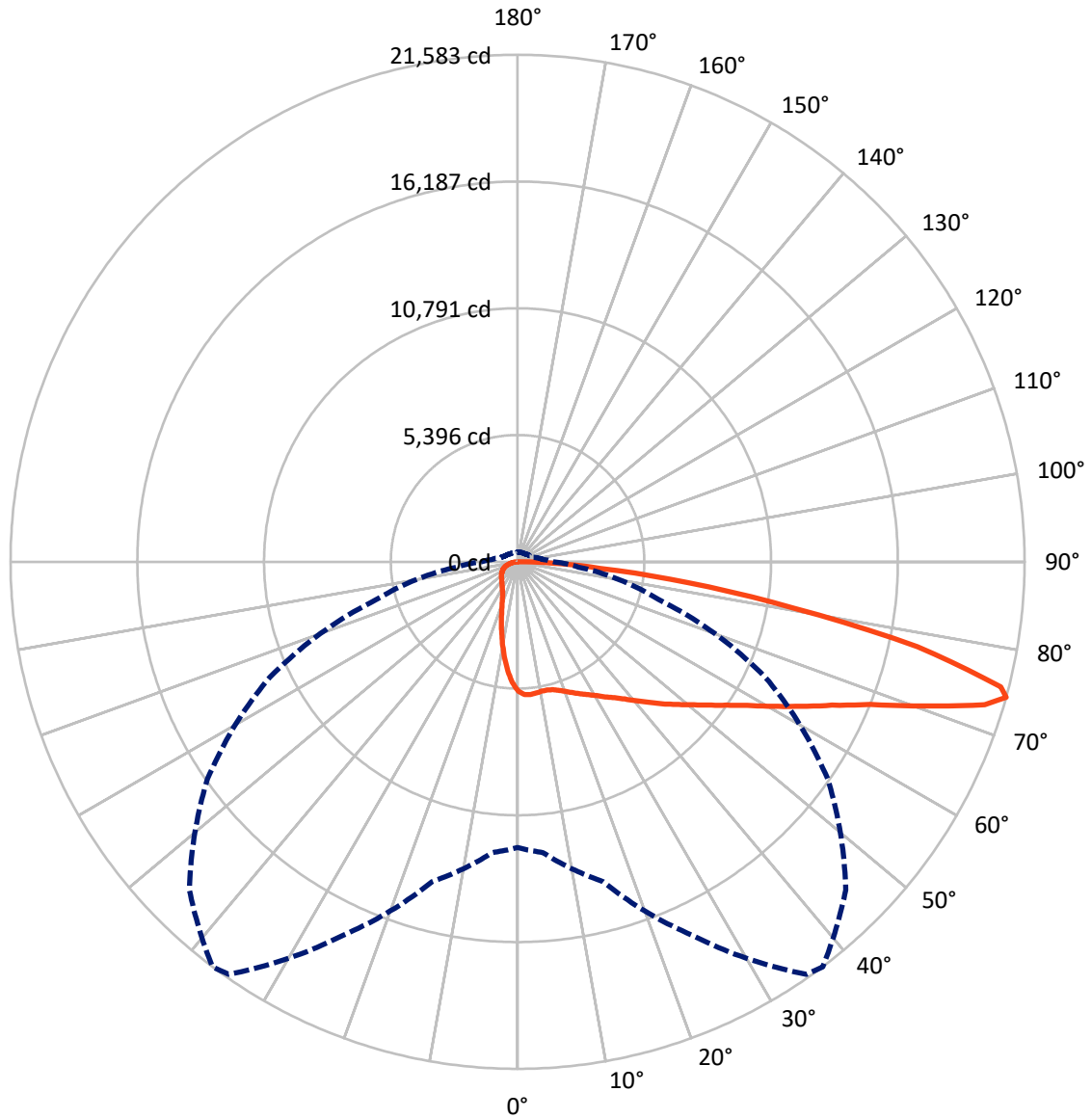
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4309.6	0.0	4309.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27011.4	0.0	27011.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	31321.0	0.0	31321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.0	1.6
10°-20°	1245.7	4.0
20°-30°	1919.4	6.1
30°-40°	2791.0	8.9
40°-50°	4107.9	13.1
50°-60°	5768.9	18.4
60°-70°	7301.6	23.3
70°-80°	6429.3	20.5
80°-90°	1271.2	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°	31321.0	100.0
0°-180°	31321.0	100.0

Coefficient of Utilization

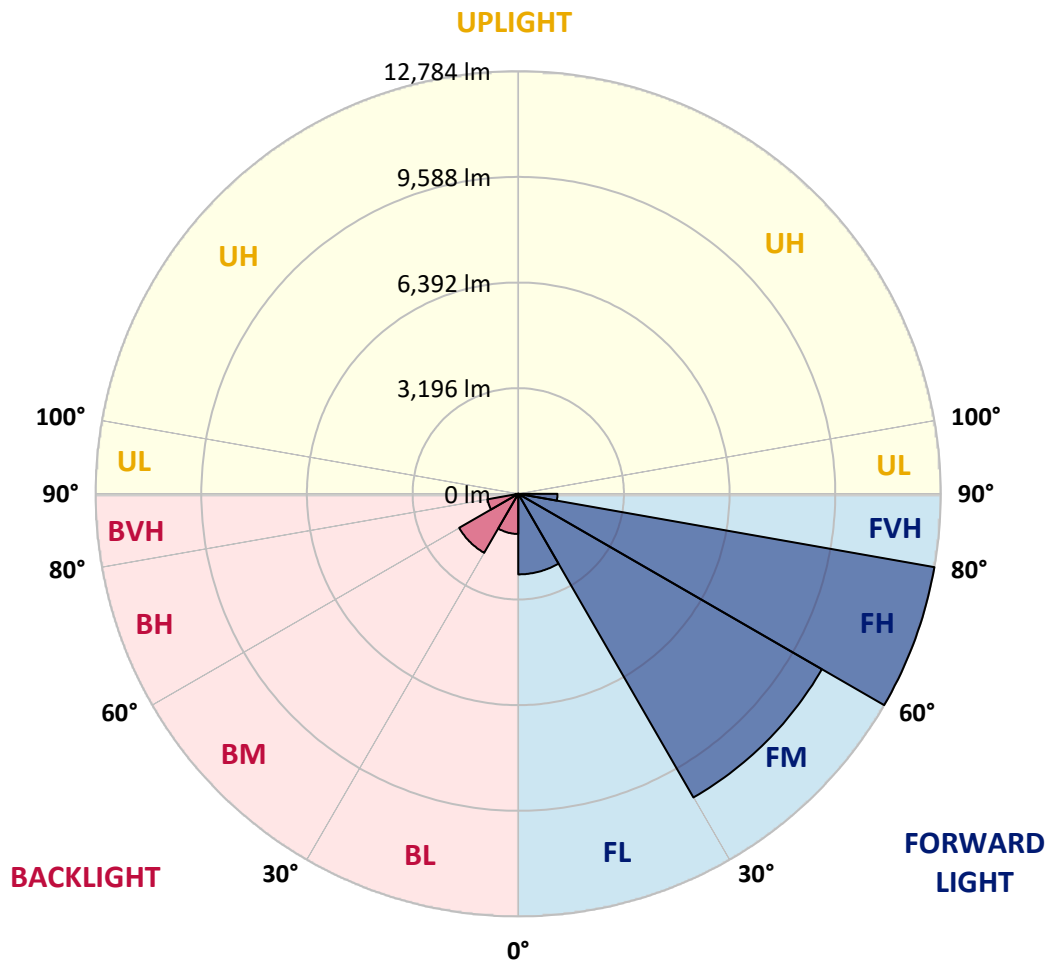


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.1	7.8			
FM (30°-60°)	10605.5	33.9			
FH (60°-80°)	12783.6	40.8			G5
FVH (80°-90°)	1185.1	3.8			G5
BL (0°-30°)	1213.9	3.9	B3/2500		
BM (30°-60°)	2062.3	6.6	B2/2500		
BH (60°-80°)	947.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	86.1	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°	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6
2.5°	5707.3	5708.4	5707.3	5698.5	5677.5	5659.9	5645.5	5624.6	5578.2	5542.9	5490.0
5°	5761.4	5754.7	5750.3	5733.8	5700.7	5680.8	5653.2	5613.5	5537.4	5466.8	5380.7
7.5°	5736.0	5728.3	5718.3	5698.5	5661.0	5644.4	5605.8	5553.9	5462.4	5369.7	5246.1
10°	5657.7	5655.4	5651.0	5646.6	5614.6	5601.4	5566.1	5510.9	5420.4	5307.9	5163.4
12.5°	5570.5	5576.0	5593.7	5616.8	5602.5	5595.9	5573.8	5536.3	5443.6	5322.3	5147.9
15°	5515.3	5530.8	5578.2	5638.9	5651.0	5648.8	5643.3	5619.0	5520.8	5386.2	5183.2
17.5°	5496.6	5521.9	5612.4	5712.8	5748.1	5755.8	5758.1	5716.1	5606.9	5464.6	5219.6
20°	5530.8	5562.8	5695.2	5833.1	5889.3	5893.8	5883.8	5811.0	5688.5	5531.9	5239.5
22.5°	5634.5	5663.2	5828.7	5984.2	6048.2	6054.8	6025.0	5914.7	5774.6	5611.3	5267.1
25°	5834.2	5869.5	6035.0	6190.5	6223.6	6224.7	6181.7	6044.9	5887.1	5722.7	5326.7
27.5°	6094.6	6129.9	6278.8	6431.1	6413.4	6403.5	6345.0	6208.2	6033.9	5876.1	5432.6
30°	6384.7	6423.3	6564.6	6672.7	6630.8	6610.9	6563.5	6386.9	6238.0	6085.7	5594.8
32.5°	6684.8	6720.1	6843.7	6917.6	6864.6	6855.8	6784.1	6623.0	6503.9	6405.7	5857.3
35°	6992.6	7018.0	7139.4	7181.3	7110.7	7108.5	7088.6	6940.8	6865.8	6912.1	6239.1
37.5°	7307.1	7313.7	7417.4	7419.6	7398.6	7407.5	7428.4	7335.8	7356.7	7501.2	6735.6
40°	7587.3	7605.0	7680.0	7703.1	7739.6	7770.4	7875.3	7814.6	7976.8	8232.7	7353.4
42.5°	7794.7	7828.9	7949.2	8008.8	8126.8	8175.4	8323.2	8379.5	8706.0	9090.0	8088.2
45°	7970.1	8023.1	8216.2	8338.6	8538.3	8623.3	8835.1	9023.8	9530.2	10020.0	8861.6
47.5°	8159.9	8227.2	8468.8	8702.7	8974.1	9070.1	9455.2	9737.6	10409.5	10955.6	9590.9
50°	8439.0	8490.9	8727.0	9094.4	9433.1	9556.7	10089.6	10494.5	11303.2	11847.1	10223.1
52.5°	8828.5	8808.6	9008.3	9523.6	9978.1	10130.4	10767.0	11299.9	12209.0	12653.6	10757.0
55°	9220.2	9187.1	9327.2	9972.6	10613.6	10773.6	11512.8	12108.6	13070.6	13379.6	11166.4
57.5°	9656.0	9593.1	9711.1	10479.0	11337.4	11528.2	12348.0	12968.0	13918.0	13966.5	11426.7
60°	10105.0	10020.0	10152.4	11106.8	12256.4	12481.5	13325.5	13806.5	14716.7	14436.5	11510.6
62.5°	10497.8	10438.2	10642.3	11807.4	13292.4	13539.5	14285.4	14698.0	15504.5	14631.8	11208.3
65°	10840.9	10850.8	11203.9	12595.1	14447.5	14711.2	15386.4	15796.9	16124.5	14515.9	10501.1
67.5°	11250.2	11306.5	11908.9	13632.2	15901.7	16190.7	16988.4	16995.0	16471.0	13836.3	9108.7
70°	11847.1	11962.9	12878.7	15070.9	17969.2	18366.4	18982.0	17698.9	15984.4	11993.8	7166.9
72.5°	12376.7	12592.9	13910.2	16717.0	20489.1	20790.3	20148.2	17292.9	13951.1	8988.5	4465.0
74°	12161.5	12429.6	14097.8	17527.9	21438.0	21582.5	19754.3	16108.0	11631.9	6224.7	2594.9
75°	11698.1	11989.4	13824.2	17520.2	21317.7	21237.2	18803.3	14754.2	9579.8	4245.4	1726.6
77.5°	9440.8	9748.6	11648.5	15015.7	17479.4	17403.2	14444.2	9897.6	4195.8	1392.3	877.1
80°	5488.9	5723.9	7230.9	9535.7	11786.4	11924.3	9499.3	4897.5	1650.5	782.2	594.7
82.5°	2438.3	2600.4	3493.0	4867.7	7112.9	7290.5	4974.7	2566.2	1019.4	475.5	357.5
85°	1599.8	1720.0	2120.5	2318.0	3387.1	3508.5	2435.0	1998.1	673.0	261.5	262.6
87.5°	1150.7	1266.6	1575.5	1375.8	1554.5	1471.8	1325.0	1849.1	270.3	148.9	88.3
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°	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6	5518.6
2.5°	5466.8	5449.1	5409.4	5334.4	5292.5	5257.2	5198.7	5164.5	5149.0	5147.9	5154.6
5°	5331.1	5290.3	5187.7	5061.9	4961.5	4869.9	4756.3	4687.9	4639.3	4610.6	4618.4
7.5°	5173.3	5109.3	4948.2	4747.4	4586.4	4408.7	4233.3	4128.5	4046.9	3986.2	3997.2
10°	5065.2	4976.9	4741.9	4452.9	4184.8	3926.6	3685.0	3540.4	3425.7	3337.4	3344.1
12.5°	5028.8	4909.6	4584.2	4198.0	3821.8	3468.7	3153.2	2931.4	2813.4	2713.0	2720.7
15°	5034.3	4874.3	4451.8	3968.5	3495.2	3050.6	2667.7	2408.5	2248.5	2179.0	2180.1
17.5°	5038.7	4833.5	4312.7	3722.5	3171.9	2660.0	2244.1	1981.5	1830.4	1766.4	1767.5
20°	5024.4	4767.3	4140.6	3440.0	2834.3	2301.5	1898.8	1675.9	1561.2	1511.5	1511.5
22.5°	5005.6	4689.0	3946.5	3156.5	2501.2	1990.3	1651.6	1481.7	1415.5	1382.4	1381.3
25°	5014.4	4630.5	3747.9	2865.2	2194.4	1742.1	1487.2	1374.7	1330.6	1309.6	1308.5
27.5°	5061.9	4602.9	3564.7	2575.1	1926.3	1555.6	1376.9	1297.5	1268.8	1255.5	1255.5
30°	5147.9	4602.9	3373.8	2327.9	1703.5	1417.7	1291.9	1237.9	1218.0	1209.2	1209.2
32.5°	5298.0	4628.3	3189.6	2083.0	1525.8	1309.6	1221.3	1184.9	1169.5	1165.1	1165.1
35°	5556.2	4714.3	3009.8	1851.3	1382.4	1221.3	1154.0	1133.1	1122.0	1120.9	1124.2
37.5°	5919.1	4889.8	2841.0	1680.3	1280.9	1149.6	1097.8	1081.2	1074.6	1080.1	1084.5
40°	6375.9	5128.1	2687.6	1525.8	1203.7	1092.3	1045.9	1034.9	1031.6	1039.3	1045.9
42.5°	6927.5	5450.2	2561.8	1414.4	1144.1	1043.7	1001.8	988.5	985.2	994.1	1002.9
45°	7524.4	5796.7	2473.6	1331.7	1097.8	1007.3	963.2	948.8	942.2	946.6	956.5
47.5°	8067.2	6124.3	2438.3	1273.2	1053.6	976.4	929.0	911.3	900.3	898.1	905.8
50°	8525.1	6368.2	2454.8	1237.9	1018.3	942.2	895.9	876.0	859.5	849.5	855.0
52.5°	8858.3	6521.5	2470.3	1222.4	990.8	904.7	859.5	840.7	818.6	802.1	802.1
55°	9099.9	6556.8	2436.1	1210.3	969.8	863.9	818.6	801.0	778.9	760.2	758.0
57.5°	9194.8	6457.5	2309.2	1192.7	955.4	825.3	775.6	762.4	743.6	721.5	720.4
60°	9066.8	6150.8	2064.2	1155.1	936.7	793.3	732.6	723.8	714.9	694.0	692.9
62.5°	8552.7	5477.8	1747.6	1079.0	899.2	759.1	692.9	697.3	698.4	684.0	681.8
65°	7620.4	4553.3	1438.7	979.7	842.9	718.2	652.0	673.0	685.1	682.9	679.6
67.5°	6265.6	3543.8	1219.1	874.9	769.0	662.0	607.9	632.2	642.1	649.8	647.6
70°	4650.4	2498.9	1008.4	764.6	679.6	595.8	550.5	562.7	556.1	564.9	568.2
72.5°	2592.7	1499.4	821.9	654.2	586.9	518.5	486.5	484.3	470.0	470.0	470.0
74°	1555.6	1100.0	722.7	585.8	530.7	467.8	440.2	430.3	417.0	418.1	417.0
75°	1251.1	945.5	663.1	540.6	491.0	438.0	410.4	397.2	387.3	387.3	386.2
77.5°	790.0	718.2	534.0	430.3	392.8	360.8	342.0	324.4	324.4	323.3	322.2
80°	596.9	571.5	415.9	325.5	301.2	276.9	264.8	257.1	257.1	260.4	259.3
82.5°	409.3	430.3	292.4	227.3	215.1	197.5	195.3	196.4	193.1	188.7	187.6
85°	299.0	323.3	197.5	143.4	131.3	120.3	129.1	133.5	128.0	118.1	113.6
87.5°	114.7	211.8	105.9	59.6	55.2	47.4	55.2	57.4	61.8	48.5	49.6
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)