

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: P193797

Luminaire Tested: **GAN-AF-09-LED-U-SL4-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 41262 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

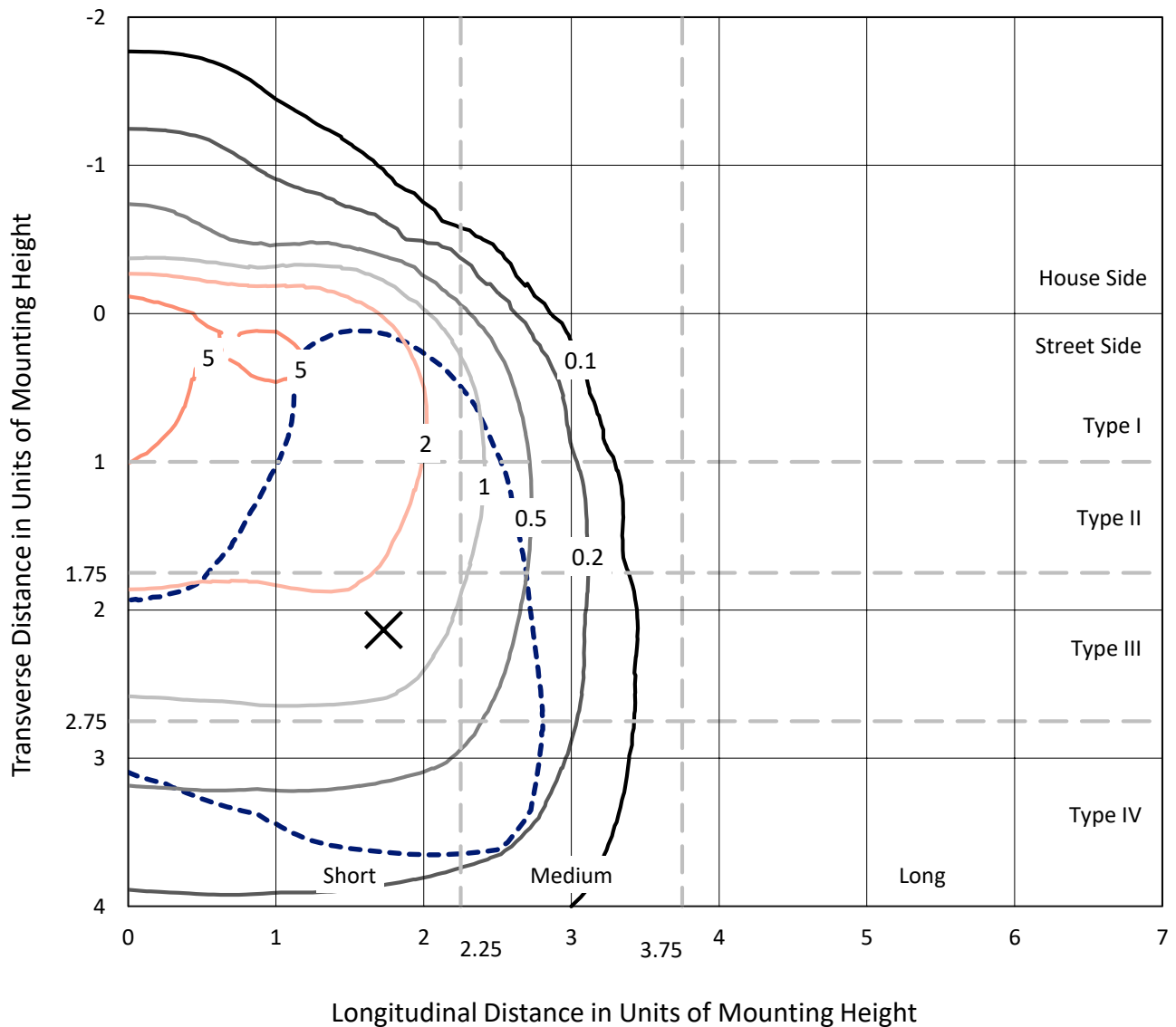
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

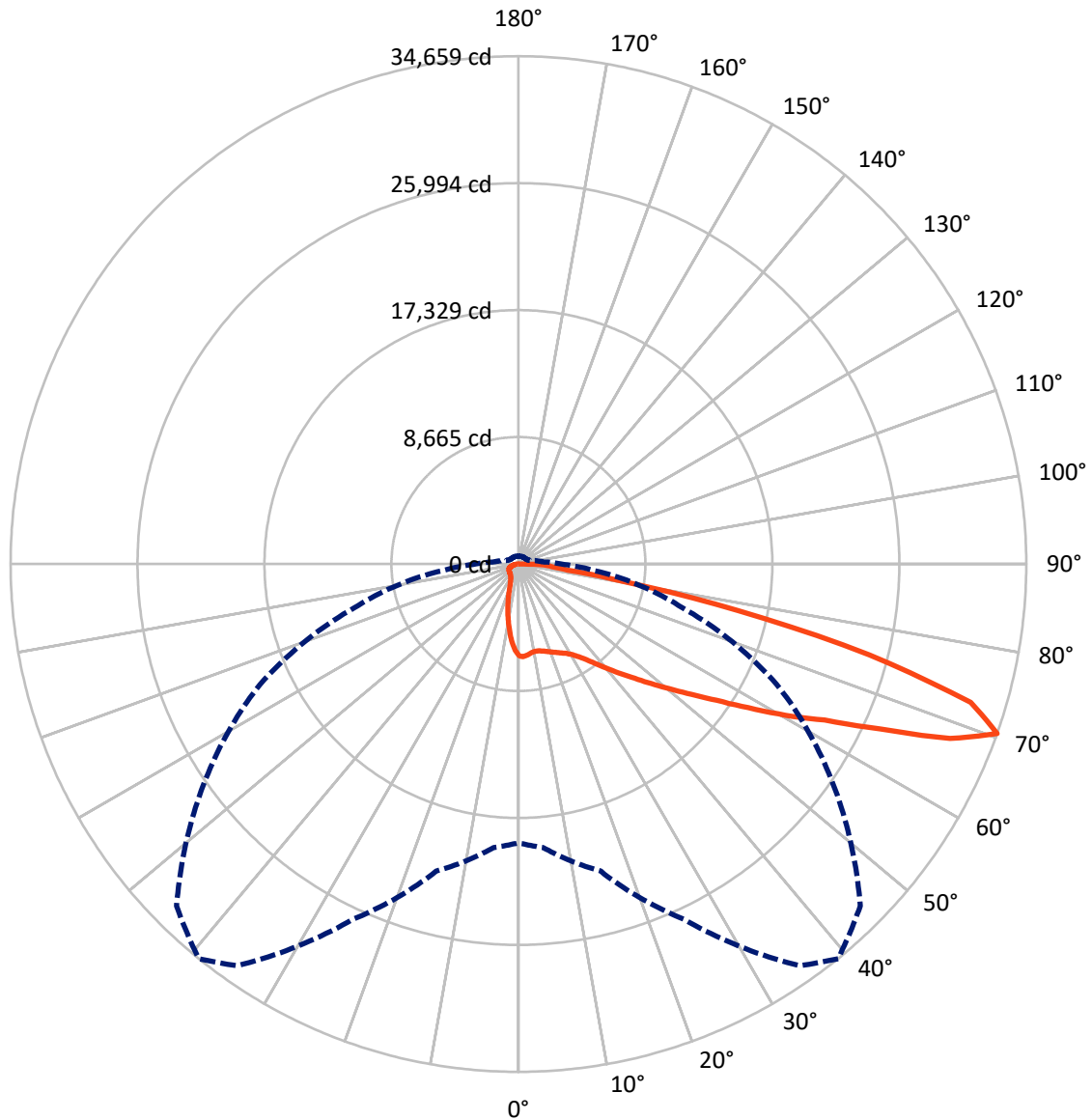
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	4692.9	0.0	4692.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	36569.1	0.0	36569.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	41262.0	0.0	41262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	1.3
10°-20°	1343.8	3.3
20°-30°	2092.3	5.1
30°-40°	3259.4	7.9
40°-50°	5472.0	13.3
50°-60°	8692.7	21.1
60°-70°	11595.1	28.1
70°-80°	7002.0	17.0
80°-90°	1267.3	3.1
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°	41262.0	100.0
0°-180°	41262.0	100.0

Coefficient of Utilization



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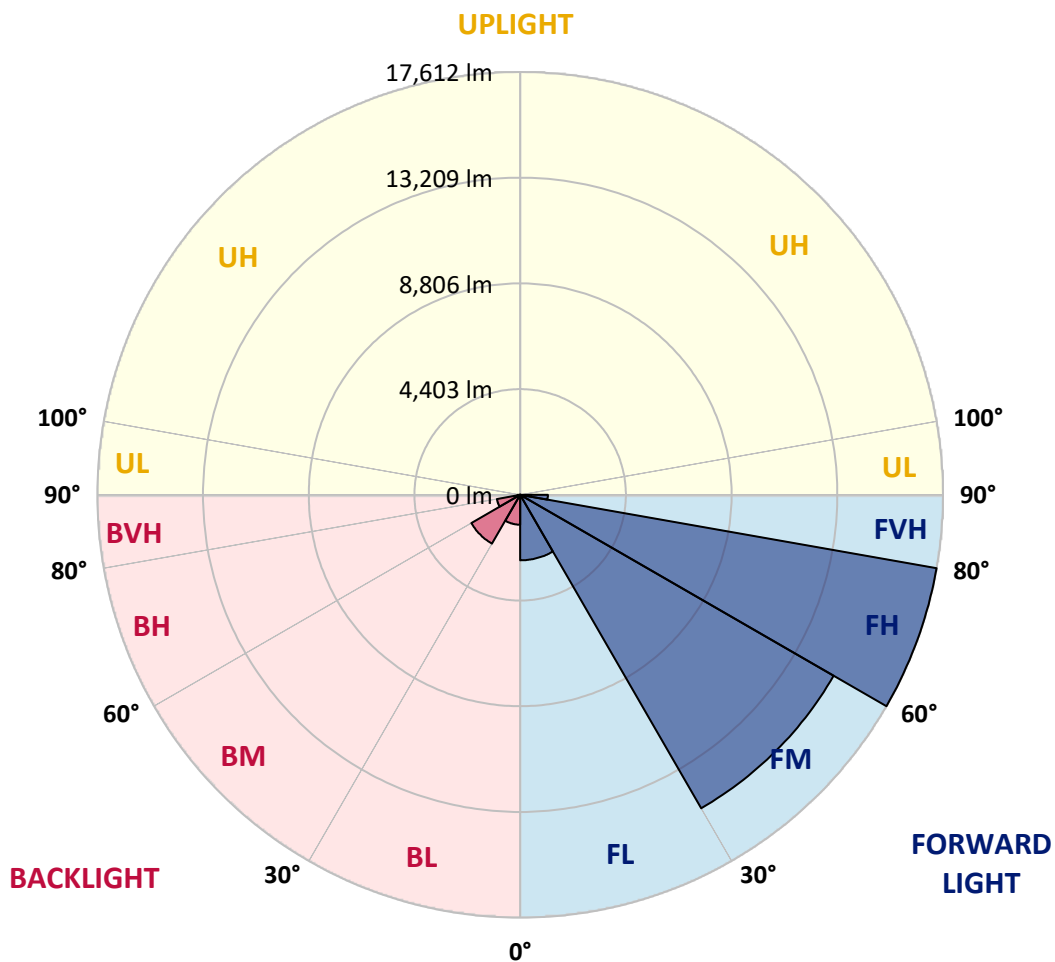
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2728.7	6.6			
FM	(30°-60°)	15075.5	36.5			
FH	(60°-80°)	17611.8	42.7			G5
FVH	(80°-90°)	1153.0	2.8			G5
BL	(0°-30°)	1244.9	3.0	B3/2500		
BM	(30°-60°)	2348.5	5.7	B2/2500		
BH	(60°-80°)	985.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	114.2	0.3			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2
2.5°	6385.9	6383.8	6367.0	6354.4	6343.9	6339.7	6348.1	6316.7	6289.4	6255.8	6220.2
5°	6337.6	6335.5	6308.3	6283.1	6257.9	6249.5	6247.4	6190.8	6157.2	6106.9	6039.7
7.5°	6285.2	6274.7	6239.0	6197.1	6153.0	6132.0	6111.1	6037.6	5999.9	5949.5	5871.9
10°	6230.6	6218.1	6184.5	6142.5	6100.6	6069.1	6033.4	5962.1	5922.3	5884.5	5794.3
12.5°	6174.0	6163.5	6155.1	6136.2	6106.9	6079.6	6052.3	5991.5	5949.5	5905.5	5800.6
15°	6165.6	6161.4	6180.3	6192.9	6176.1	6159.3	6129.9	6077.5	6033.4	5989.4	5853.0
17.5°	6232.7	6230.6	6278.9	6312.5	6304.1	6274.7	6234.8	6176.1	6140.4	6102.7	5932.7
20°	6379.6	6390.1	6448.8	6492.9	6450.9	6409.0	6343.9	6262.1	6243.2	6226.4	6014.6
22.5°	6656.5	6667.0	6709.0	6725.7	6616.7	6555.8	6465.6	6360.7	6348.1	6360.7	6113.2
25°	7088.7	7078.2	7071.9	7009.0	6809.7	6715.3	6599.9	6490.8	6497.1	6553.7	6251.6
27.5°	7661.4	7604.7	7516.6	7327.8	7011.0	6906.2	6765.6	6664.9	6704.8	6813.9	6459.3
30°	8255.1	8192.1	7988.7	7680.3	7275.4	7160.0	7002.7	6889.4	6994.3	7166.3	6736.2
32.5°	8804.7	8796.3	8498.4	8101.9	7640.4	7539.7	7382.4	7254.4	7424.3	7686.6	7151.6
35°	9404.7	9423.6	9067.0	8590.7	8133.4	8028.5	7915.2	7818.7	8045.3	8406.1	7753.7
37.5°	10046.7	10084.4	9662.7	9125.7	8695.6	8651.6	8584.4	8542.5	8892.8	9392.1	8594.9
40°	10904.7	10866.9	10281.6	9729.9	9385.8	9383.7	9362.8	9413.1	9996.3	10680.2	9675.3
42.5°	11823.5	11712.4	10938.2	10378.1	10143.2	10214.5	10256.4	10462.0	11324.3	12245.2	10992.8
45°	12813.7	12564.1	11620.0	11064.1	10984.4	11135.4	11278.1	11724.9	12887.2	14026.3	12436.1
47.5°	13604.6	13363.4	12324.9	11783.7	11957.8	12186.5	12461.3	13168.3	14636.8	15866.1	13860.6
50°	14227.7	14070.3	13036.1	12622.8	13029.8	13382.3	13831.2	14802.5	16457.7	17657.7	15180.1
52.5°	14831.9	14714.4	13753.6	13482.9	14288.5	14775.2	15385.7	16556.3	18324.8	19419.9	16289.9
55°	15377.3	15293.4	14525.6	14555.0	15769.6	16403.2	17171.0	18553.5	20359.7	20991.2	17229.7
57.5°	15992.0	15885.0	15406.7	15899.7	17672.4	18494.7	19493.3	20798.2	22268.8	22388.4	17945.1
60°	16610.9	16518.6	16384.3	17452.1	20089.1	20953.4	21899.6	22973.7	24205.1	23473.0	17903.1
62.5°	17147.9	17158.4	17395.5	19082.1	22455.5	23456.2	24610.0	25671.5	25956.8	23661.8	16579.4
65°	18058.4	18224.1	18931.1	21389.8	25786.9	27125.3	28541.4	28371.5	26441.4	21897.5	13741.0
67.5°	19140.9	19432.5	20865.3	24465.2	29997.3	31774.2	32321.7	28981.9	24500.9	17800.3	9794.9
70°	19031.8	19432.5	21700.3	26758.2	33467.2	34658.8	32997.2	26229.5	19455.6	11628.4	5202.7
72.5°	16900.4	17473.1	19998.9	25707.2	32374.2	32269.3	28646.3	19554.2	11559.2	4669.8	2032.8
75°	12880.9	13459.9	15633.3	20309.4	25587.6	24706.5	20326.2	10801.9	4386.6	1854.5	1281.8
77.5°	7409.6	7858.6	9536.9	12455.0	16233.2	15329.1	11313.8	4804.1	2135.6	1292.3	1000.7
80°	4137.0	4386.6	5406.2	6318.8	7955.1	7292.2	5062.1	2985.3	1594.4	937.7	772.0
82.5°	3270.6	3492.9	4371.9	3985.9	3633.5	3352.4	2907.6	2658.0	1273.4	591.6	461.5
85°	2857.3	3069.2	3700.6	3138.4	2481.8	2276.2	2362.2	2616.0	990.2	356.6	394.4
87.5°	2647.5	2930.7	3297.8	2418.8	1932.1	1711.9	2179.7	2867.8	318.9	222.4	159.4
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°	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2	6264.2
2.5°	6188.7	6155.1	6100.6	6052.3	5976.8	5936.9	5892.9	5861.4	5836.2	5815.3	5848.8
5°	5997.8	5934.8	5819.5	5695.7	5548.8	5433.5	5337.0	5246.7	5183.8	5141.9	5171.2
7.5°	5817.4	5714.6	5534.2	5309.7	5057.9	4844.0	4667.7	4512.5	4405.5	4336.3	4363.5
10°	5714.6	5586.6	5307.6	4955.1	4583.8	4250.3	3973.3	3734.2	3568.5	3474.1	3488.7
12.5°	5689.4	5523.7	5137.7	4653.1	4145.4	3681.7	3291.5	2960.1	2727.2	2605.5	2609.7
15°	5708.3	5496.4	4978.2	4363.5	3721.6	3136.3	2649.6	2246.8	1976.2	1837.7	1835.6
17.5°	5739.7	5475.4	4810.4	4051.0	3291.5	2611.8	2068.5	1674.1	1434.9	1323.7	1315.4
20°	5773.3	5441.8	4621.6	3713.2	2844.7	2125.1	1619.5	1311.2	1160.1	1099.3	1095.1
22.5°	5821.6	5412.5	4426.5	3356.6	2406.2	1730.7	1332.1	1124.5	1044.7	1013.3	1009.1
25°	5899.2	5397.8	4218.8	2985.3	2011.8	1447.5	1160.1	1032.1	986.0	965.0	962.9
27.5°	6029.3	5418.8	4023.7	2624.4	1690.9	1256.6	1063.6	986.0	952.4	933.5	931.5
30°	6197.1	5483.8	3818.1	2282.5	1441.2	1126.6	1004.9	954.5	927.3	908.4	908.4
32.5°	6476.1	5592.9	3602.0	1986.7	1262.9	1036.3	960.8	927.3	904.2	889.5	887.4
35°	6887.3	5798.5	3400.6	1741.2	1134.9	971.3	923.1	897.9	881.1	872.7	872.7
37.5°	7485.2	6123.7	3222.3	1565.0	1057.3	927.3	887.4	868.5	858.0	858.0	858.0
40°	8288.6	6572.6	3077.6	1447.5	1013.3	895.8	860.1	845.4	839.1	841.2	841.2
42.5°	9280.9	7155.8	2981.1	1365.7	992.3	876.9	841.2	828.7	822.4	820.3	822.4
45°	10411.7	7818.7	2970.6	1304.9	971.3	864.3	828.7	816.1	803.5	795.1	795.1
47.5°	11511.0	8492.1	3056.6	1283.9	948.2	849.6	818.2	805.6	786.7	767.8	767.8
50°	12482.3	9064.9	3172.0	1292.3	939.8	828.7	801.4	795.1	765.7	744.7	742.6
52.5°	13254.3	9505.4	3266.4	1317.5	948.2	814.0	780.4	782.5	751.0	728.0	725.9
55°	13873.2	9794.9	3241.2	1342.6	967.1	805.6	761.5	765.7	740.5	717.5	717.5
57.5°	14143.8	9687.9	2962.2	1321.7	981.8	807.7	746.8	763.6	742.6	721.7	721.7
60°	13562.7	8737.6	2439.8	1229.3	962.9	801.4	740.5	772.0	769.9	748.9	746.8
62.5°	11804.7	7036.2	1892.3	1093.0	897.9	769.9	723.8	769.9	793.0	786.7	784.6
65°	9098.4	5011.8	1445.4	946.1	809.8	717.5	679.7	721.7	753.1	761.5	759.4
67.5°	5905.5	3071.3	1114.0	807.7	711.2	656.6	623.1	641.9	648.2	648.2	644.0
70°	2903.4	1653.1	887.4	679.7	610.5	591.6	572.7	562.2	551.7	543.3	543.3
72.5°	1432.8	1080.4	730.1	574.8	526.6	518.2	514.0	501.4	493.0	482.5	478.3
75°	1059.4	879.0	621.0	484.6	453.1	444.7	453.1	442.6	440.6	432.2	428.0
77.5°	870.6	748.9	535.0	415.4	388.1	373.4	386.0	388.1	390.2	377.6	373.4
80°	707.0	633.6	446.8	344.0	318.9	308.4	316.8	333.6	337.8	318.9	310.5
82.5°	509.8	518.2	360.8	268.5	247.5	239.2	255.9	276.9	281.1	253.8	247.5
85°	428.0	432.2	276.9	190.9	169.9	157.3	184.6	205.6	220.3	193.0	186.7
87.5°	178.3	253.8	159.4	107.0	94.4	81.8	98.6	109.1	132.2	121.7	119.6
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)