

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: P320063

Luminaire Tested: **GAN-SA9D-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320063
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-SA9D-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 65912 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

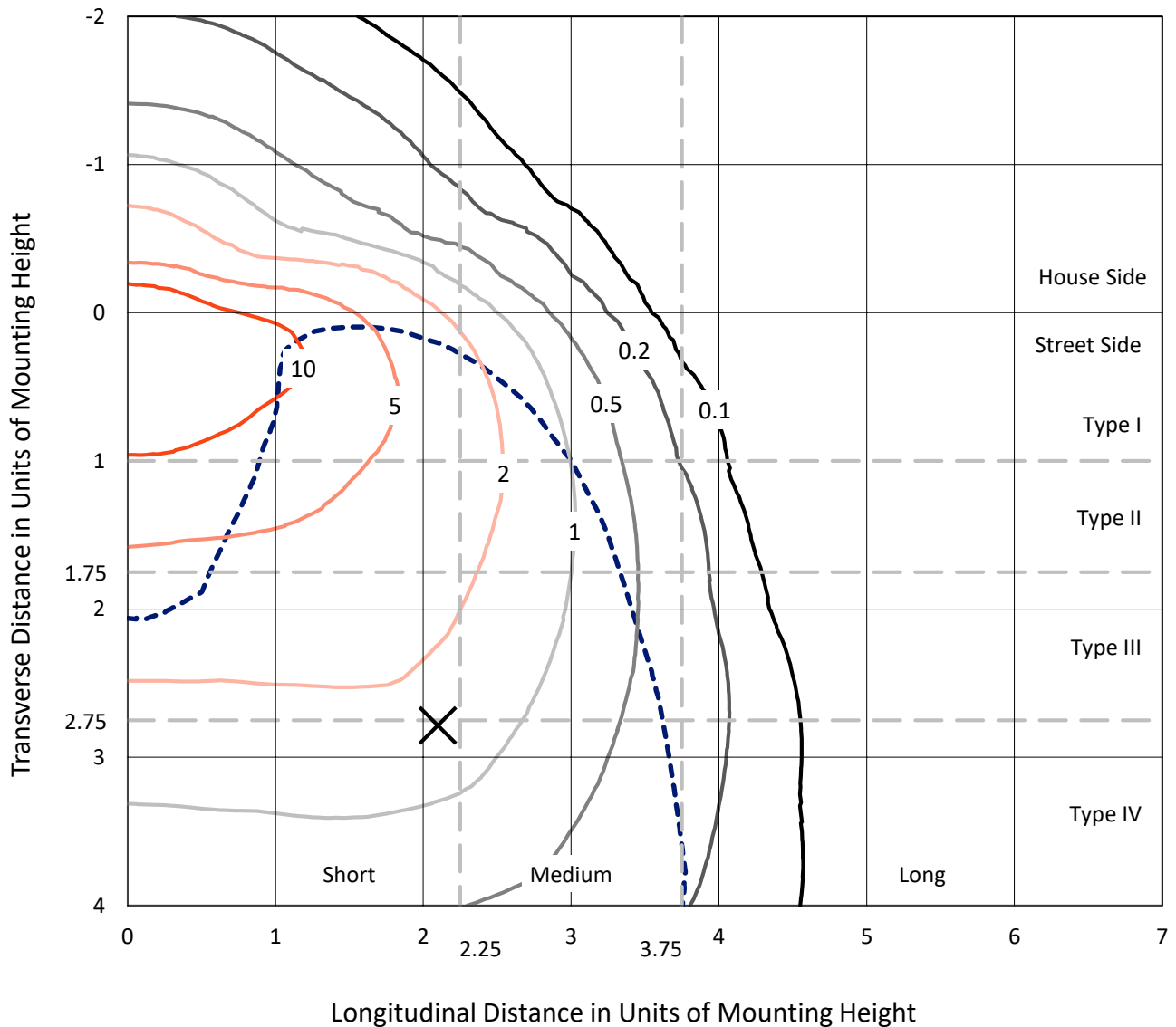
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

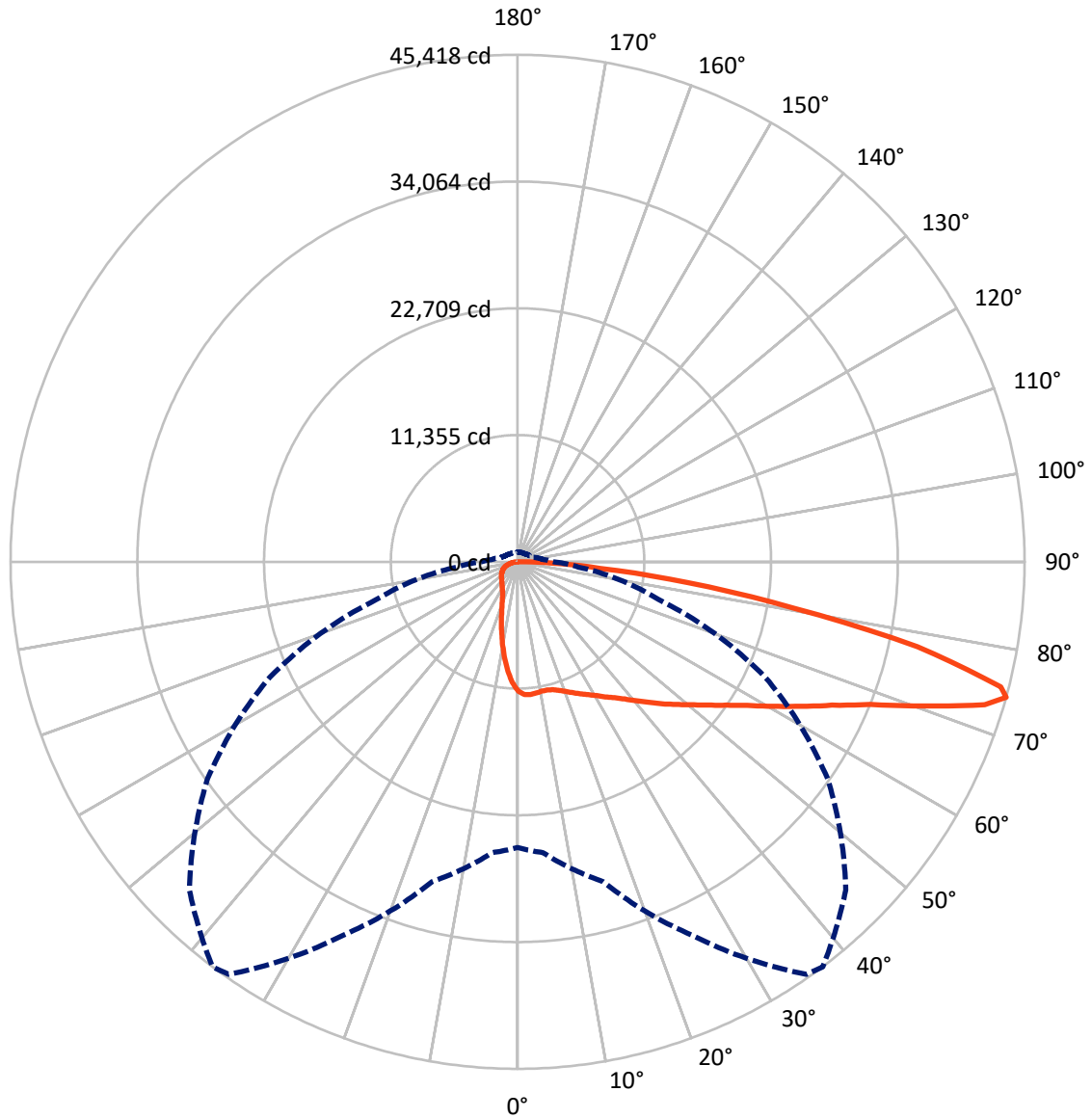
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	9069.0	0.0	9069.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	56843.0	0.0	56843.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	65912.0	0.0	65912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.7	1.6
10°-20°	2621.4	4.0
20°-30°	4039.1	6.1
30°-40°	5873.5	8.9
40°-50°	8644.8	13.1
50°-60°	12140.0	18.4
60°-70°	15365.5	23.3
70°-80°	13529.9	20.5
80°-90°	2675.2	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°	65912.0	100.0
0°-180°	65912.0	100.0

Coefficient of Utilization



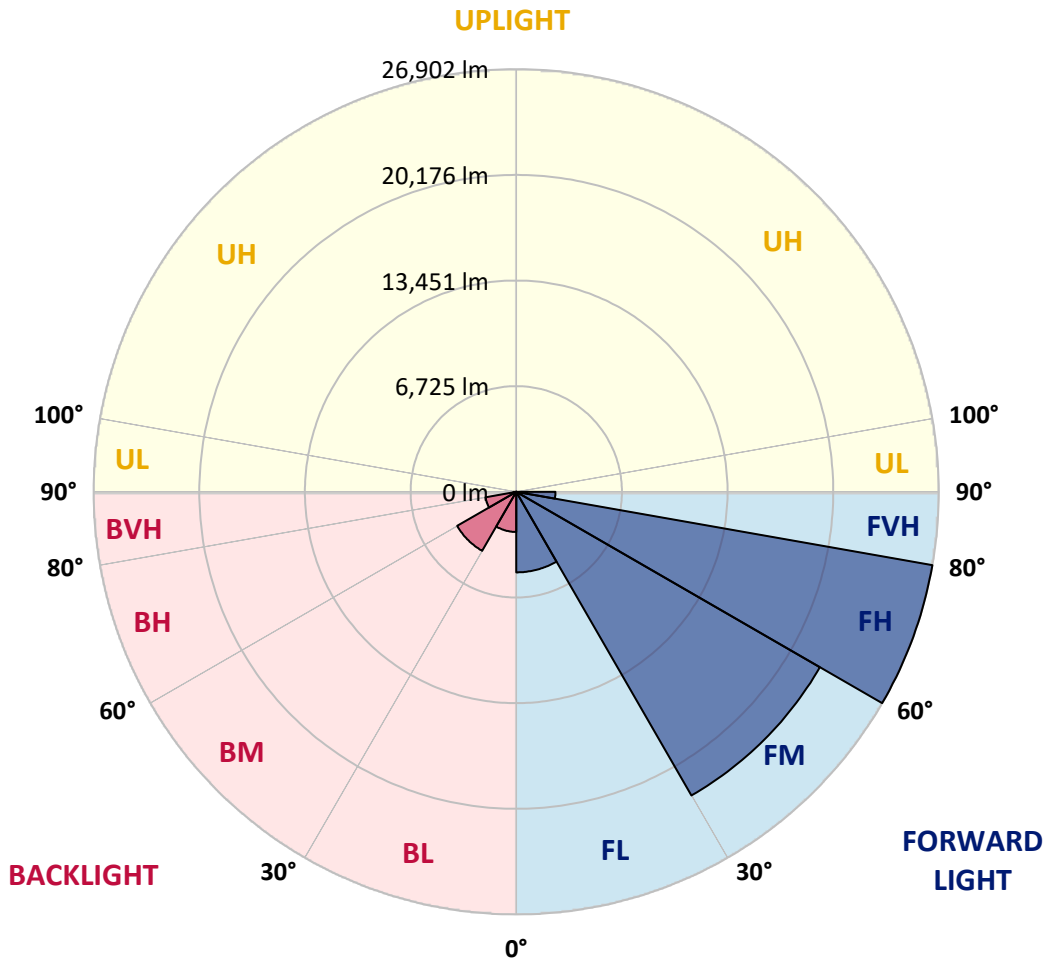
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5128.7	7.8			
FM (30°-60°)	22318.3	33.9			
FH (60°-80°)	26901.9	40.8			G5
FVH (80°-90°)	2494.0	3.8			G5
BL (0°-30°)	2554.5	3.9	B4/5000		
BM (30°-60°)	4339.9	6.6	B3/5000		
BH (60°-80°)	1993.5	3.0	B3/2500		G3/2500
BVH (80°-90°)	181.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4
2.5°	12010.5	12012.8	12010.5	11991.9	11947.8	11910.6	11880.4	11836.3	11738.8	11664.5	11553.1
5°	12124.2	12110.3	12101.0	12066.2	11996.5	11954.7	11896.7	11813.1	11652.9	11504.3	11323.2
7.5°	12070.8	12054.6	12033.7	11991.9	11912.9	11878.1	11796.9	11687.7	11495.0	11300.0	11040.0
10°	11906.0	11901.3	11892.1	11882.8	11815.4	11787.6	11713.3	11597.2	11406.8	11170.0	10865.8
12.5°	11722.6	11734.2	11771.3	11820.1	11789.9	11776.0	11729.5	11650.6	11455.6	11200.2	10833.3
15°	11606.5	11639.0	11738.8	11866.5	11892.1	11887.4	11875.8	11824.7	11618.1	11334.8	10907.6
17.5°	11567.0	11620.4	11810.8	12022.1	12096.4	12112.6	12117.3	12029.0	11799.2	11499.7	10984.2
20°	11639.0	11706.3	11984.9	12275.1	12393.5	12402.8	12381.9	12228.7	11971.0	11641.3	11026.0
22.5°	11857.2	11917.6	12265.9	12593.2	12727.9	12741.8	12679.1	12447.0	12152.1	11808.5	11084.1
25°	12277.5	12351.8	12700.0	13027.4	13097.0	13099.4	13008.8	12720.9	12388.9	12043.0	11209.5
27.5°	12825.4	12899.7	13213.1	13533.5	13496.4	13475.5	13352.4	13064.5	12697.7	12365.7	11432.3
30°	13436.0	13517.3	13814.5	14042.0	13953.8	13912.0	13812.1	13440.7	13127.2	12806.8	11773.6
32.5°	14067.5	14141.8	14401.9	14557.4	14446.0	14427.4	14276.5	13937.5	13686.8	13480.1	12326.2
35°	14715.3	14768.7	15024.1	15112.3	14963.7	14959.1	14917.3	14606.2	14448.3	14545.8	13129.5
37.5°	15377.0	15390.9	15609.2	15613.8	15569.7	15588.3	15632.4	15437.4	15481.5	15785.6	14174.3
40°	15966.7	16003.9	16161.8	16210.5	16287.1	16352.1	16572.7	16445.0	16786.3	17325.0	15474.5
42.5°	16403.2	16475.2	16728.3	16853.6	17102.1	17204.2	17515.4	17633.8	18321.0	19129.0	17020.8
45°	16772.4	16883.8	17290.1	17547.9	17968.1	18146.9	18592.6	18989.7	20055.4	21086.2	18648.4
47.5°	17171.7	17313.4	17821.8	18314.0	18885.2	19087.2	19897.5	20491.8	21905.8	23055.1	20183.1
50°	17759.1	17868.3	18365.1	19138.3	19851.0	20111.1	21232.5	22084.6	23786.4	24931.0	21513.4
52.5°	18578.7	18536.9	18957.2	20041.4	20998.0	21318.4	22658.0	23779.5	25692.6	26628.3	22637.2
55°	19402.9	19333.3	19628.2	20986.4	22335.3	22672.0	24227.6	25481.3	27505.9	28156.0	23498.5
57.5°	20320.0	20187.7	20436.1	22052.1	23858.4	24260.1	25985.1	27290.0	29289.0	29391.1	24046.5
60°	21265.0	21086.2	21364.8	23373.1	25792.4	26266.1	28042.2	29054.5	30969.9	30380.2	24222.9
62.5°	22091.5	21966.2	22395.7	24847.5	27972.6	28492.6	30062.1	30930.5	32627.7	30791.2	23586.8
65°	22813.6	22834.5	23577.5	26505.2	30403.4	30958.3	32379.3	33242.9	33932.5	30547.4	22098.5
67.5°	23675.0	23793.4	25061.1	28687.7	33463.5	34071.8	35750.4	35764.4	34661.5	29117.2	19168.4
70°	24931.0	25174.8	27101.9	31715.2	37814.5	38650.3	39945.9	37245.7	33637.6	25239.8	15082.1
72.5°	26045.5	26500.6	29272.7	35179.3	43117.4	43751.2	42400.0	36391.3	29358.6	18915.4	9396.2
74°	25592.8	26156.9	29667.4	36885.8	45114.1	45418.3	41571.1	33897.7	24478.3	13099.4	5460.8
75°	24617.6	25230.6	29091.6	36869.5	44861.0	44691.5	39569.7	31048.9	20159.8	8934.1	3633.6
77.5°	19867.3	20515.1	24513.1	31599.1	36783.6	36623.4	30396.5	20828.5	8829.6	2930.1	1845.8
80°	11550.8	12045.3	15216.8	20067.0	24803.4	25093.6	19990.3	10306.3	3473.4	1646.1	1251.4
82.5°	5131.1	5472.4	7350.7	10243.6	14968.4	15342.2	10468.8	5400.4	2145.3	1000.7	752.2
85°	3366.6	3619.6	4462.4	4878.0	7127.8	7383.2	5124.1	4204.7	1416.3	550.3	552.6
87.5°	2421.6	2665.4	3315.5	2895.2	3271.4	3097.2	2788.4	3891.3	568.8	313.4	185.7
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°	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4	11613.4
2.5°	11504.3	11467.2	11383.6	11225.7	11137.5	11063.2	10940.1	10868.2	10835.6	10833.3	10847.3
5°	11218.7	11132.8	10916.9	10652.2	10441.0	10248.2	10009.1	9865.2	9763.0	9702.6	9718.9
7.5°	10886.7	10752.1	10413.1	9990.5	9651.6	9277.7	8908.6	8688.0	8516.2	8388.5	8411.7
10°	10659.2	10473.5	9978.9	9370.6	8806.4	8263.1	7754.7	7450.5	7209.1	7023.3	7037.3
12.5°	10582.6	10331.8	9646.9	8834.3	8042.6	7299.6	6635.6	6168.9	5920.5	5709.2	5725.5
15°	10594.2	10257.5	9368.3	8351.4	7355.3	6419.7	5614.0	5068.4	4731.7	4585.5	4587.8
17.5°	10603.5	10171.6	9075.8	7833.6	6675.1	5597.8	4722.5	4169.9	3851.8	3717.1	3719.5
20°	10573.3	10032.3	8713.6	7239.2	5964.6	4843.2	3995.7	3526.8	3285.3	3180.8	3180.8
22.5°	10533.8	9867.5	8304.9	6642.6	5263.4	4188.5	3475.7	3118.1	2978.8	2909.2	2906.8
25°	10552.4	9744.4	7887.0	6029.6	4618.0	3666.1	3129.7	2892.9	2800.0	2755.9	2753.6
27.5°	10652.2	9686.4	7501.6	5419.0	4053.8	3273.7	2897.6	2730.4	2670.0	2642.2	2642.2
30°	10833.3	9686.4	7099.9	4898.9	3584.8	2983.5	2718.8	2605.0	2563.2	2544.6	2544.6
32.5°	11149.1	9739.8	6712.2	4383.5	3211.0	2755.9	2570.2	2493.6	2461.1	2451.8	2451.8
35°	11692.4	9920.9	6333.8	3895.9	2909.2	2570.2	2428.6	2384.4	2361.2	2358.9	2365.9
37.5°	12456.2	10290.0	5978.5	3536.0	2695.6	2419.3	2310.2	2275.3	2261.4	2273.0	2282.3
40°	13417.4	10791.5	5655.8	3211.0	2533.0	2298.5	2201.0	2177.8	2170.8	2187.1	2201.0
42.5°	14578.3	11469.5	5391.1	2976.5	2407.7	2196.4	2108.2	2080.3	2073.3	2091.9	2110.5
45°	15834.4	12198.5	5205.4	2802.4	2310.2	2119.8	2026.9	1996.7	1982.8	1992.1	2013.0
47.5°	16976.7	12888.1	5131.1	2679.3	2217.3	2054.8	1954.9	1917.8	1894.6	1889.9	1906.2
50°	17940.2	13401.2	5165.9	2605.0	2143.0	1982.8	1885.3	1843.5	1808.7	1787.8	1799.4
52.5°	18641.4	13723.9	5198.4	2572.5	2084.9	1903.8	1808.7	1769.2	1722.7	1687.9	1687.9
55°	19149.9	13798.2	5126.4	2547.0	2040.8	1817.9	1722.7	1685.6	1639.2	1599.7	1595.0
57.5°	19349.5	13589.3	4859.4	2509.8	2010.6	1736.7	1632.2	1604.3	1564.9	1518.4	1516.1
60°	19080.2	12943.8	4344.0	2430.9	1971.2	1669.3	1541.6	1523.1	1504.5	1460.4	1458.1
62.5°	17998.3	11527.5	3677.7	2270.7	1892.2	1597.4	1458.1	1467.4	1469.7	1439.5	1434.8
65°	16036.4	9581.9	3027.6	2061.7	1773.8	1511.5	1372.2	1416.3	1441.8	1437.2	1430.2
67.5°	13185.3	7457.5	2565.5	1841.2	1618.3	1393.1	1279.3	1330.4	1351.3	1367.5	1362.9
70°	9786.2	5258.8	2122.1	1609.0	1430.2	1253.7	1158.6	1184.1	1170.2	1188.7	1195.7
72.5°	5456.1	3155.3	1729.7	1376.8	1235.2	1091.2	1023.9	1019.3	989.1	989.1	989.1
74°	3273.7	2314.8	1520.8	1232.9	1116.8	984.4	926.4	905.5	877.6	879.9	877.6
75°	2632.9	1989.7	1395.4	1137.7	1033.2	921.7	863.7	835.8	814.9	814.9	812.6
77.5°	1662.4	1511.5	1123.7	905.5	826.5	759.2	719.7	682.6	682.6	680.3	678.0
80°	1256.1	1202.7	875.3	684.9	633.8	582.8	557.2	541.0	541.0	547.9	545.6
82.5°	861.4	905.5	615.3	478.3	452.7	415.6	411.0	413.3	406.3	397.0	394.7
85°	629.2	680.3	415.6	301.8	276.3	253.1	271.6	280.9	269.3	248.4	239.1
87.5°	241.5	445.8	222.9	125.4	116.1	99.8	116.1	120.7	130.0	102.2	104.5
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)