

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: P317858

Luminaire Tested: **GAN-SA4D-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32001 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

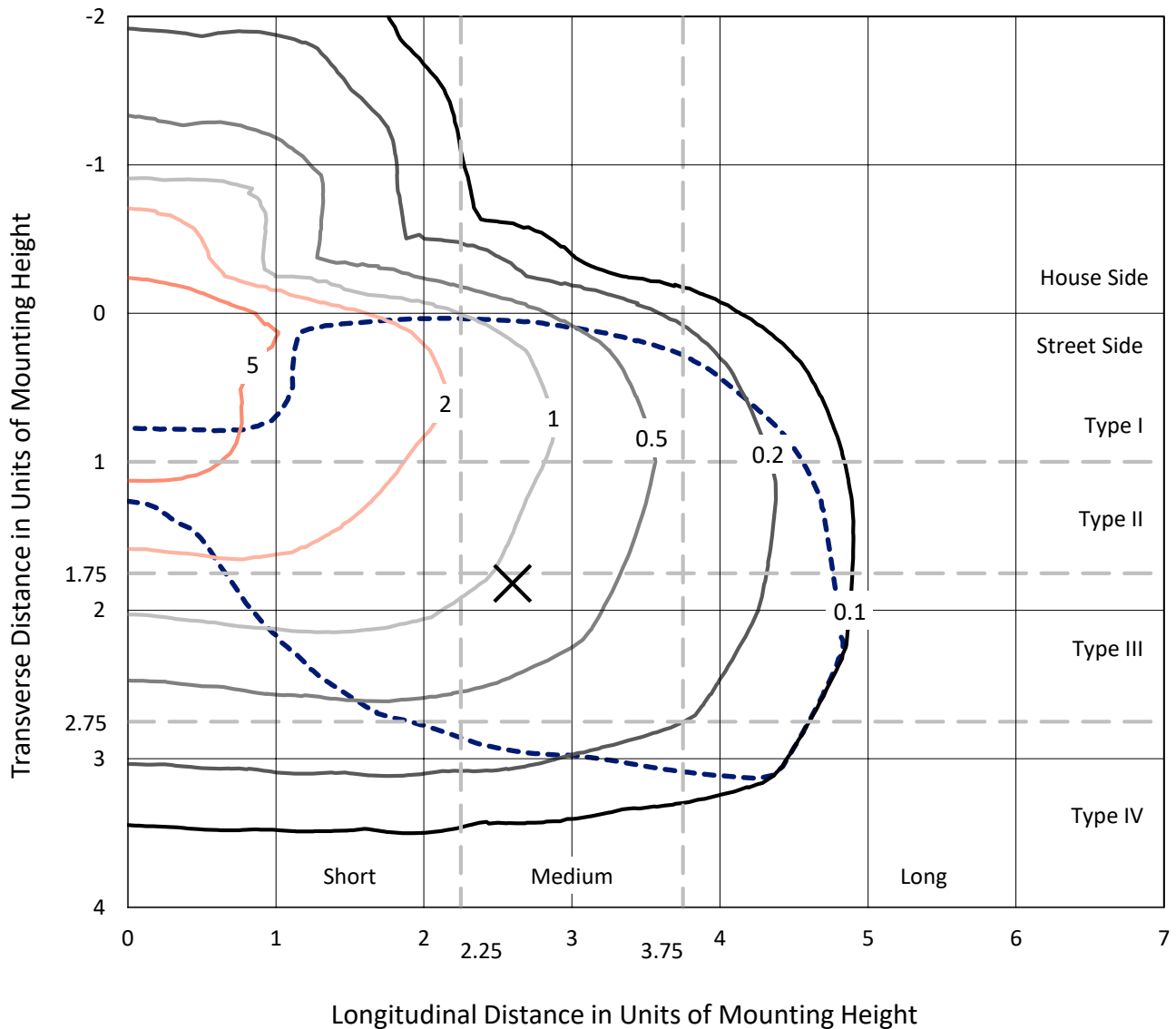
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

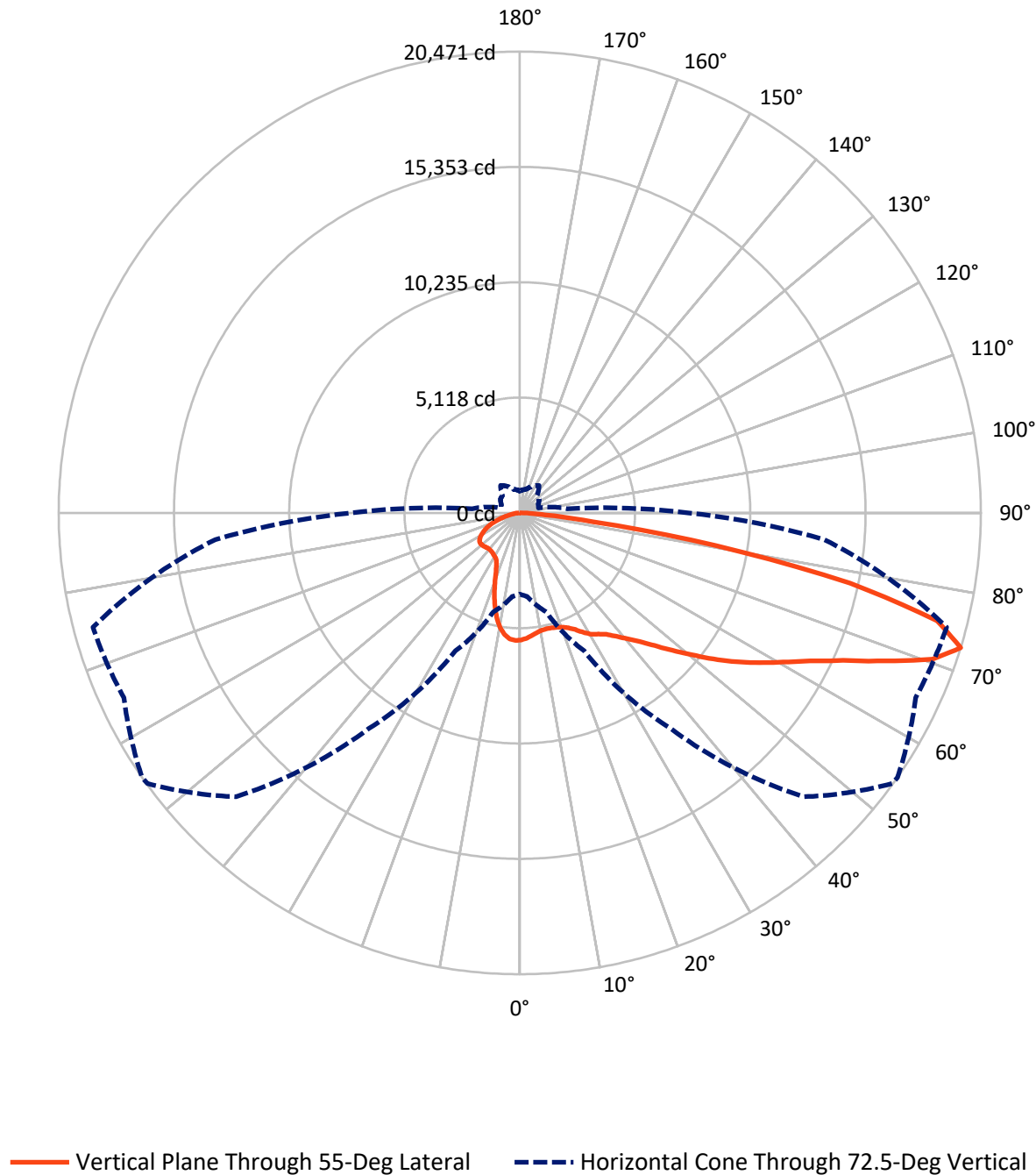
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5947.9	0.0	5947.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26053.1	0.0	26053.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	32001.0	0.0	32001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	1.6
10°-20°	1359.8	4.2
20°-30°	2241.9	7.0
30°-40°	3316.4	10.4
40°-50°	4629.0	14.5
50°-60°	6027.1	18.8
60°-70°	7407.1	23.1
70°-80°	5806.3	18.1
80°-90°	702.6	2.2
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°	32001.0	100.0
0°-180°	32001.0	100.0

Coefficient of Utilization



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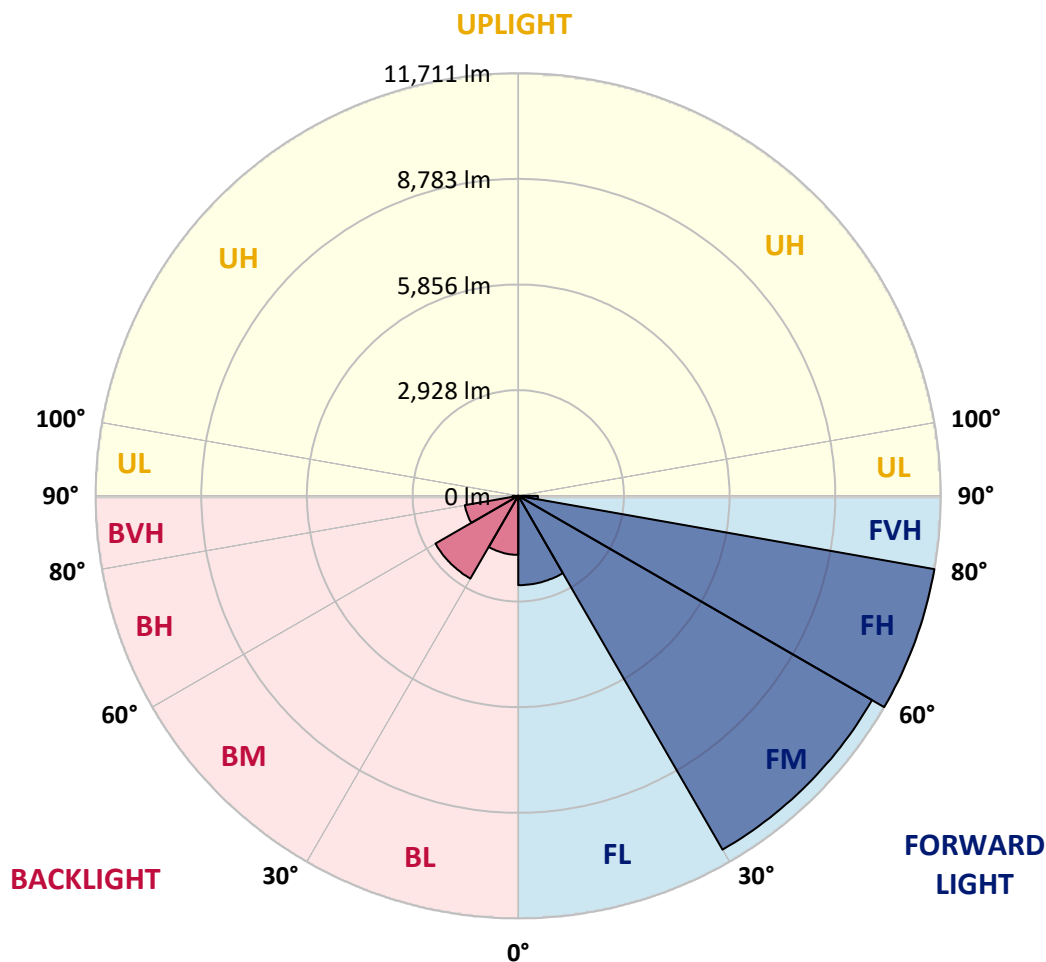
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2475.9	7.7			
FM	(30°-60°)	11322.6	35.4			
FH	(60°-80°)	11711.3	36.6			G4/12000
FVH	(80°-90°)	543.2	1.7			G4/750
BL	(0°-30°)	1636.5	5.1	B3/2500		
BM	(30°-60°)	2649.9	8.3	B3/5000		
BH	(60°-80°)	1502.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	159.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3
2.5°	5460.5	5447.6	5463.8	5486.5	5511.3	5544.8	5564.3	5573.0	5606.5	5619.4	5647.5
5°	5207.6	5201.1	5228.2	5267.1	5322.2	5400.0	5462.7	5474.6	5563.2	5625.9	5683.2
7.5°	5023.9	5023.9	5055.2	5101.7	5163.3	5268.1	5356.8	5373.0	5523.2	5658.3	5764.3
10°	4878.0	4883.4	4920.1	4975.2	5047.6	5159.0	5276.8	5295.2	5512.4	5734.0	5902.6
12.5°	4780.7	4793.6	4827.2	4876.9	4966.6	5101.7	5250.9	5275.7	5535.1	5842.1	6069.1
15°	4842.3	4863.9	4867.1	4887.7	4937.4	5084.4	5266.0	5291.9	5583.8	5952.3	6258.2
17.5°	5112.5	5120.1	5086.6	5043.3	5019.5	5113.6	5311.4	5338.4	5642.1	6061.5	6439.8
20°	5523.2	5518.9	5446.5	5329.8	5208.7	5223.8	5386.0	5414.1	5721.0	6157.7	6621.4
22.5°	6042.0	6026.9	5915.6	5700.5	5494.0	5407.6	5516.7	5540.5	5839.9	6295.0	6815.9
25°	6671.1	6637.6	6490.6	6202.0	5898.3	5675.6	5713.5	5736.2	6012.9	6448.5	6994.3
27.5°	7334.8	7301.3	7114.3	6765.1	6360.9	6013.9	5984.8	6004.2	6209.6	6561.9	7126.2
30°	8028.7	7993.0	7822.2	7431.0	6851.6	6364.1	6237.7	6245.2	6347.9	6623.6	7234.2
32.5°	8725.8	8692.3	8501.0	8047.1	7384.5	6740.3	6420.4	6410.6	6431.2	6687.3	7356.4
35°	9432.7	9445.7	9222.0	8719.4	7974.6	7158.6	6636.5	6616.0	6570.6	6818.1	7529.3
37.5°	10189.3	10180.7	9891.0	9365.7	8591.8	7612.5	6946.7	6943.5	6786.8	7065.6	7800.6
40°	10695.2	10700.6	10524.4	10027.2	9215.5	8115.2	7344.5	7336.9	7131.6	7436.4	8156.2
42.5°	10893.0	10928.6	10974.0	10658.4	9868.3	8697.7	7819.0	7808.2	7612.5	7968.2	8574.5
45°	10907.0	10978.4	11259.4	11219.4	10529.8	9364.6	8425.4	8395.1	8254.6	8675.0	9073.9
47.5°	10786.0	10859.5	11326.4	11553.4	11121.0	10068.3	9134.4	9110.6	8989.6	9559.2	9614.3
50°	10521.2	10591.4	11188.1	11716.6	11607.4	10744.9	9951.5	9888.9	9824.0	10580.6	10232.6
52.5°	10025.0	10160.2	11003.2	11755.5	11898.2	11345.9	10810.8	10769.8	10805.4	11658.2	10851.9
55°	8850.1	9001.5	10526.6	11723.1	12113.3	11850.6	11670.1	11668.0	11852.8	12788.8	11516.6
57.5°	8191.9	8298.9	9555.9	11668.0	12368.4	12352.1	12520.8	12541.3	12901.2	14019.9	12212.7
60°	7820.1	7932.5	9064.2	11463.7	12764.0	13000.7	13388.7	13429.8	13967.0	15382.9	13050.4
62.5°	7481.8	7605.0	8759.3	11047.5	13229.8	13928.1	14428.5	14465.2	15095.4	16783.7	13860.0
65°	6903.5	7042.9	8312.9	10774.1	13653.5	15137.5	15750.4	15775.3	16391.3	18251.5	14479.3
67.5°	6086.4	6213.9	7471.0	10169.9	13967.0	16606.4	17507.9	17521.9	17676.5	19288.1	14796.0
70°	5132.0	5180.6	6271.2	8922.6	13596.2	17980.2	19434.0	19437.2	18848.2	19951.7	14744.1
72.5°	3605.8	3720.3	4552.6	6754.3	11684.2	17812.7	20433.8	20470.5	19392.9	19616.7	13566.0
75°	2211.5	2332.5	2855.7	4093.2	7412.6	14009.1	18879.5	19134.6	18371.5	17490.6	11082.1
77.5°	1478.6	1524.0	1863.4	2386.6	3358.3	8060.0	14515.0	14994.9	15261.8	12755.3	7087.2
80°	824.7	911.2	1235.4	1482.9	1493.8	3202.6	8703.1	8815.6	8491.3	5079.0	2186.6
82.5°	436.7	484.2	824.7	871.2	815.0	1072.2	3243.7	3246.9	2713.0	1361.9	649.6
85°	338.3	378.3	565.3	531.8	416.1	475.6	1070.1	1128.4	923.1	557.7	211.8
87.5°	168.6	209.7	383.7	337.2	163.2	136.2	382.6	408.6	364.3	218.3	76.7
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°	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3	5644.3
2.5°	5658.3	5668.1	5680.0	5667.0	5662.7	5645.4	5616.2	5609.7	5594.6	5595.6	5604.3
5°	5708.1	5724.3	5717.8	5668.1	5608.6	5525.4	5438.9	5365.4	5316.8	5313.5	5310.3
7.5°	5803.2	5814.0	5763.2	5621.6	5455.1	5262.7	5081.2	4922.3	4826.1	4802.3	4796.9
10°	5952.3	5950.2	5810.7	5525.4	5193.6	4849.9	4558.0	4337.5	4208.9	4171.1	4161.3
12.5°	6118.8	6093.9	5827.0	5350.3	4823.9	4347.2	3977.6	3732.2	3598.2	3555.0	3544.2
15°	6290.6	6229.0	5787.0	5088.7	4369.9	3805.7	3417.7	3190.7	3118.3	3094.5	3090.2
17.5°	6450.6	6331.7	5672.4	4734.2	3852.2	3266.4	2963.7	2872.9	2890.2	2921.6	2922.7
20°	6607.3	6400.9	5488.6	4286.7	3306.4	2822.1	2719.5	2786.5	2868.6	2932.4	2941.0
22.5°	6761.9	6449.5	5251.9	3770.1	2817.8	2572.5	2644.9	2767.0	2861.1	2930.2	2942.1
25°	6891.6	6461.4	4925.5	3218.8	2478.4	2478.4	2609.2	2724.9	2817.8	2885.9	2897.8
27.5°	6939.2	6381.4	4465.1	2708.7	2307.7	2435.2	2559.5	2655.7	2734.6	2807.0	2820.0
30°	6957.5	6233.4	3933.3	2299.0	2237.4	2388.7	2492.5	2574.6	2649.2	2717.3	2729.2
32.5°	6960.8	6055.0	3369.1	2066.6	2188.8	2340.1	2409.3	2481.7	2561.7	2588.7	2593.0
35°	6981.3	5844.2	2774.6	1947.7	2143.4	2294.7	2349.8	2401.7	2272.0	2281.7	2290.4
37.5°	7040.8	5635.6	2277.4	1880.7	2114.2	2270.9	2336.8	2148.8	2047.2	2023.4	2020.1
40°	7152.1	5413.0	1908.8	1826.7	2103.4	2282.8	2253.6	2006.1	1831.0	1700.2	1680.7
42.5°	7306.7	5173.0	1673.2	1791.0	2110.9	2340.1	2138.0	1868.8	1578.1	1493.8	1482.9
45°	7480.7	4921.2	1545.6	1766.1	2136.9	2384.4	2114.2	1686.2	1460.3	1396.5	1391.1
47.5°	7649.3	4613.1	1479.7	1755.3	2172.5	2348.7	2013.7	1629.9	1404.0	1370.5	1373.8
50°	7842.8	4335.4	1439.7	1743.4	2203.9	2326.0	1900.2	1600.8	1382.4	1423.5	1466.7
52.5°	8006.0	4047.8	1404.0	1719.7	2215.8	2286.0	1871.0	1606.2	1382.4	1461.3	1502.4
55°	8199.5	3830.6	1363.0	1669.9	2193.1	2172.5	1850.4	1638.6	1398.6	1348.9	1353.2
57.5°	8449.1	3759.3	1317.6	1592.1	2117.4	2007.2	1840.7	1669.9	1388.9	1357.6	1368.4
60°	8795.0	3834.9	1299.2	1490.5	1999.6	1877.5	1841.8	1653.7	1320.8	1266.8	1267.9
62.5°	9124.7	3919.2	1298.1	1426.7	1854.8	1761.8	1816.9	1600.8	1286.2	1254.9	1266.8
65°	9232.8	3833.8	1246.2	1355.4	1691.6	1623.5	1771.5	1544.6	1260.3	1212.7	1210.6
67.5°	9087.9	3569.0	1141.4	1239.8	1504.6	1462.4	1712.1	1477.5	1219.2	1180.3	1173.8
70°	8657.7	2977.8	1011.7	1087.4	1291.6	1280.8	1618.1	1399.7	1164.1	1130.6	1102.5
72.5°	7500.1	2121.7	852.8	904.7	1051.7	1086.3	1488.4	1298.1	1086.3	1013.9	970.6
75°	6159.9	1570.5	700.4	711.2	798.8	892.8	1310.0	1179.2	994.4	871.2	837.7
77.5°	3772.2	960.9	557.7	562.1	572.9	712.3	1078.7	1046.3	877.7	726.3	702.6
80°	1221.4	524.2	403.2	423.7	391.3	522.1	834.4	890.6	753.4	607.4	581.5
82.5°	464.8	305.9	272.4	286.4	271.3	350.2	608.5	713.4	617.2	499.4	406.4
85°	224.8	172.9	161.0	180.5	167.5	179.4	389.1	525.3	468.0	325.3	302.6
87.5°	80.0	76.7	61.6	83.2	71.3	63.8	118.9	264.8	309.1	223.7	200.0
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)