

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: P192997

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192997
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-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 48905.5 lumens
Efficiency: N/A
Efficacy: 97.6 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

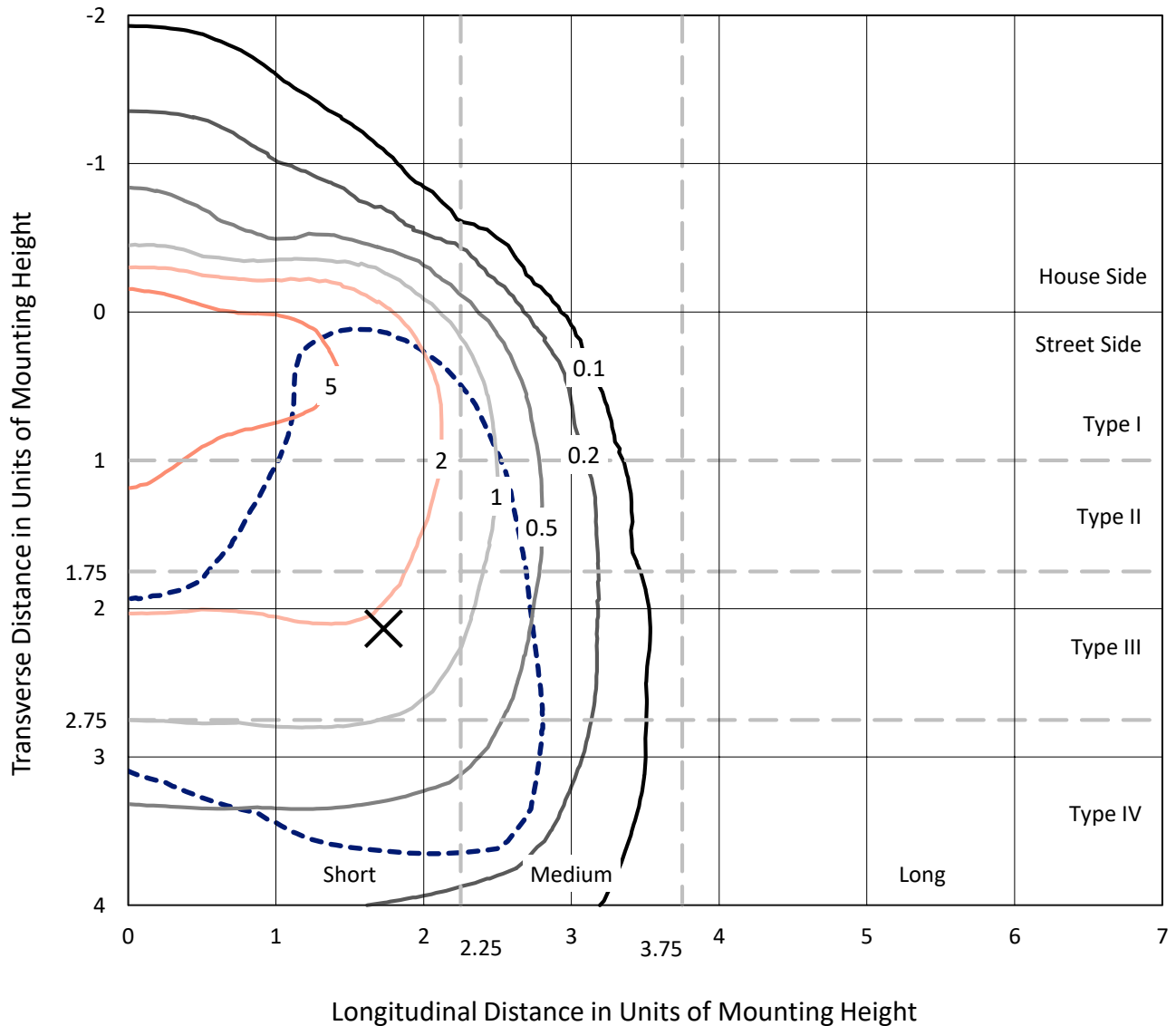


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

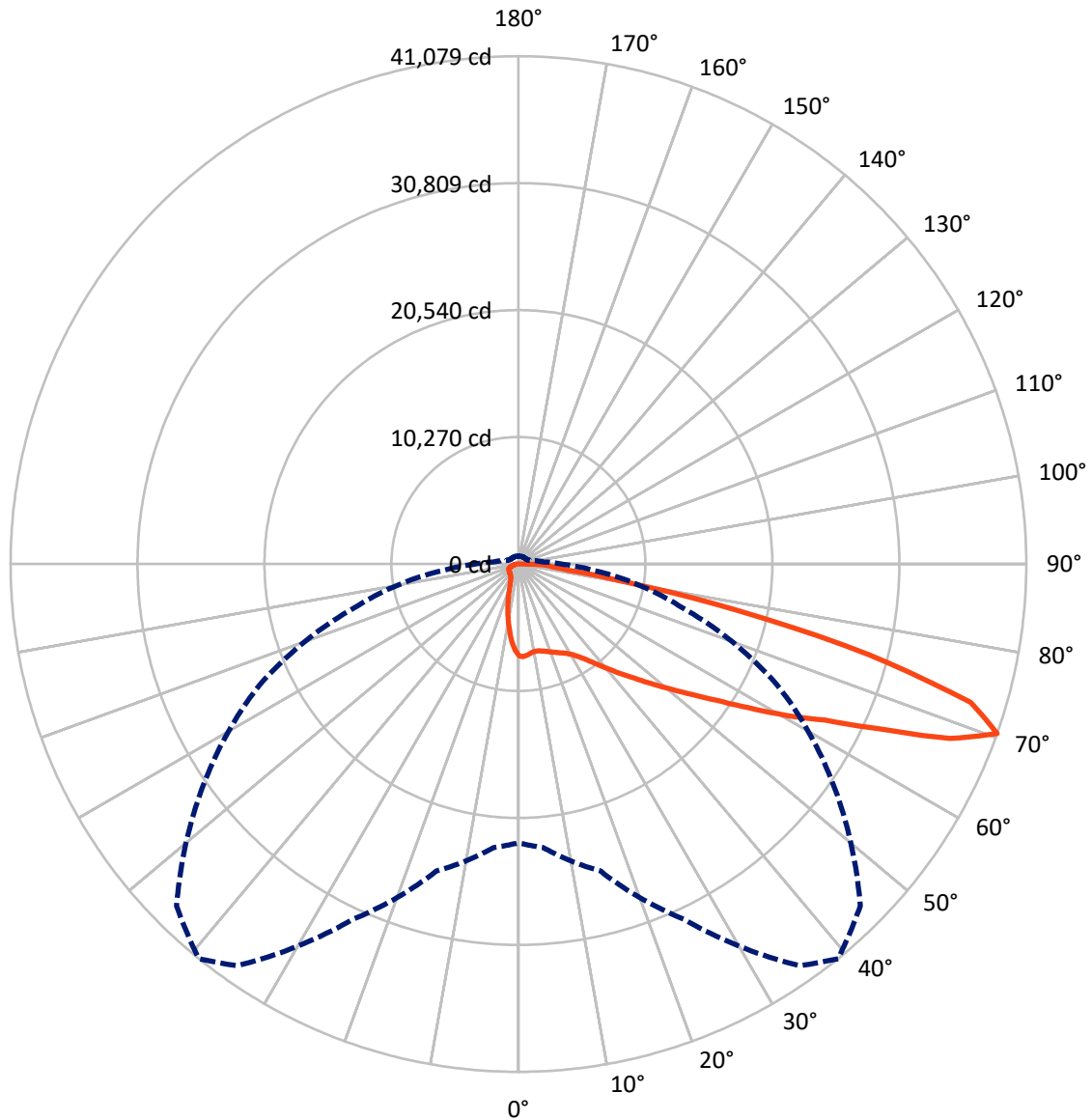


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Semi-Cutoff

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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	5562.2	0.0	5562.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	43343.3	0.0	43343.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	48905.5	0.0	48905.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.2	1.3
10°-20°	1592.7	3.3
20°-30°	2479.9	5.1
30°-40°	3863.2	7.9
40°-50°	6485.6	13.3
50°-60°	10303.0	21.1
60°-70°	13743.0	28.1
70°-80°	8299.0	17.0
80°-90°	1502.0	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°	48905.5	100.0
0°-180°	48905.5	100.0



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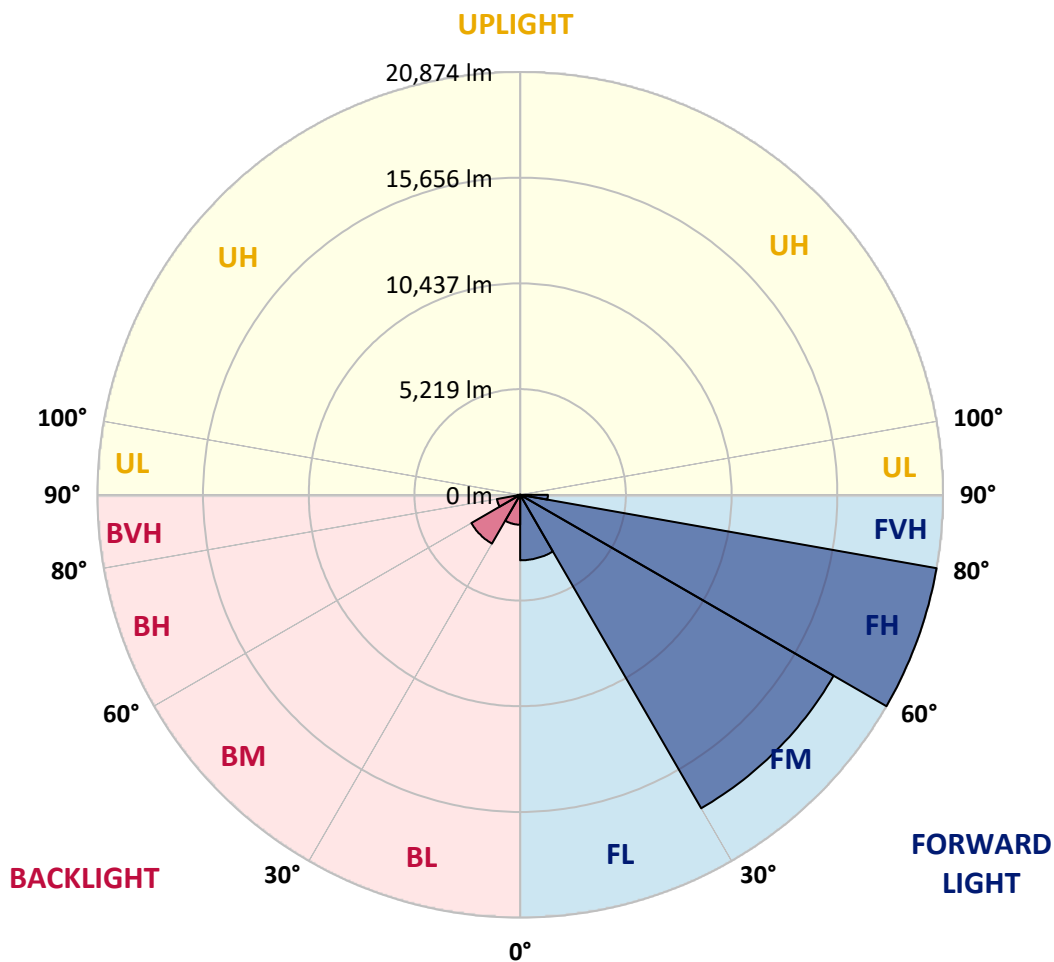
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3234.2	6.6			
FM	(30°-60°)	17868.2	36.5			
FH	(60°-80°)	20874.3	42.7			G5
FVH	(80°-90°)	1366.6	2.8			G5
BL	(0°-30°)	1475.6	3.0	B3/2500		
BM	(30°-60°)	2783.6	5.7	B3/5000		
BH	(60°-80°)	1167.7	2.4	B3/2500		G3/2500
BVH	(80°-90°)	135.4	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°	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6
2.5°	7568.8	7566.3	7546.4	7531.6	7519.1	7514.1	7524.0	7486.8	7454.4	7414.7	7372.4
5°	7511.7	7509.2	7476.8	7447.0	7417.2	7407.2	7404.7	7337.7	7297.8	7238.1	7158.5
7.5°	7449.6	7437.1	7394.7	7345.1	7292.8	7267.9	7243.2	7156.1	7111.3	7051.6	6959.6
10°	7384.9	7369.9	7330.1	7280.4	7230.7	7193.4	7151.1	7066.6	7019.4	6974.6	6867.6
12.5°	7317.7	7305.3	7295.4	7273.0	7238.1	7205.7	7173.5	7101.5	7051.6	6999.4	6875.1
15°	7307.8	7302.8	7325.2	7340.0	7320.2	7300.2	7265.5	7203.4	7151.1	7098.9	6937.3
17.5°	7387.3	7384.9	7441.9	7481.8	7471.9	7437.1	7389.9	7320.2	7277.9	7233.2	7031.7
20°	7561.4	7573.9	7643.4	7695.6	7646.0	7596.1	7519.1	7422.1	7399.8	7379.8	7128.7
22.5°	7889.6	7902.0	7951.8	7971.7	7842.3	7770.2	7663.3	7539.0	7524.0	7539.0	7245.6
25°	8401.8	8389.4	8382.0	8307.3	8071.1	7959.2	7822.4	7693.2	7700.6	7767.8	7409.8
27.5°	9080.6	9013.5	8909.0	8685.2	8309.8	8185.4	8018.9	7899.6	7946.8	8076.1	7655.9
30°	9784.2	9709.7	9468.5	9103.1	8623.1	8486.3	8299.9	8165.6	8289.9	8493.9	7984.1
32.5°	10435.8	10425.8	10072.7	9602.8	9055.7	8936.5	8749.9	8598.2	8799.6	9110.5	8476.5
35°	11146.8	11169.2	10746.5	10182.1	9640.1	9515.7	9381.4	9267.2	9535.6	9963.4	9190.1
37.5°	11907.7	11952.5	11452.7	10816.1	10306.4	10254.2	10174.7	10124.9	10540.1	11132.0	10187.2
40°	12924.8	12879.9	12186.2	11532.4	11124.4	11122.0	11097.1	11156.8	11848.1	12658.7	11467.7
42.5°	14013.8	13882.1	12964.4	12300.6	12022.2	12106.7	12156.4	12400.1	13422.0	14513.6	13029.1
45°	15187.4	14891.5	13772.5	13113.7	13019.3	13198.2	13367.4	13896.9	15274.5	16624.6	14739.8
47.5°	16124.8	15838.9	14608.1	13966.5	14172.9	14444.0	14769.6	15607.5	17348.1	18805.2	16428.1
50°	16863.3	16676.8	15451.0	14961.1	15443.5	15861.2	16393.4	17544.6	19506.4	20928.7	17992.2
52.5°	17579.4	17440.2	16301.4	15980.6	16935.4	17512.3	18235.8	19623.3	21719.3	23017.3	19307.5
55°	18225.9	18126.4	17216.3	17251.2	18690.9	19441.8	20351.8	21990.4	24131.2	24879.7	20421.4
57.5°	18954.4	18827.5	18260.7	18845.0	20946.1	21920.8	23104.3	24651.0	26394.0	26535.7	21269.3
60°	19688.0	19578.5	19419.4	20685.0	23810.6	24834.9	25956.2	27229.4	28689.0	27821.2	21219.6
62.5°	20324.4	20336.9	20617.9	22617.0	26615.2	27801.3	29168.8	30427.1	30765.2	28045.0	19650.6
65°	21403.6	21600.0	22437.9	25352.1	30563.7	32150.2	33828.6	33627.2	31339.6	25953.9	16286.4
67.5°	22686.6	23032.2	24730.5	28997.3	35554.2	37660.1	38309.1	34350.7	29039.6	21097.8	11609.4
70°	22557.3	23032.2	25720.0	31715.0	39666.8	41079.1	39109.8	31088.4	23059.6	13782.5	6166.5
72.5°	20031.0	20709.9	23703.6	30469.2	38371.3	38247.0	33952.9	23176.4	13700.4	5534.8	2409.3
75°	15267.1	15953.3	18529.2	24071.6	30327.5	29283.2	24091.4	12802.9	5199.2	2198.1	1519.2
77.5°	8782.3	9314.4	11303.5	14762.2	19240.3	18168.7	13409.6	5694.0	2531.2	1531.7	1186.0
80°	4903.3	5199.2	6407.6	7489.2	9428.7	8643.0	5999.9	3538.3	1889.7	1111.5	915.0
82.5°	3876.4	4140.0	5181.8	4724.3	4306.6	3973.4	3446.2	3150.4	1509.3	701.2	547.1
85°	3386.6	3637.7	4386.1	3719.7	2941.5	2697.8	2799.8	3100.7	1173.7	422.8	467.4
87.5°	3137.9	3473.6	3908.7	2866.9	2290.1	2029.0	2583.4	3399.0	377.9	263.6	189.0
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°	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6	7424.6
2.5°	7335.1	7295.4	7230.7	7173.5	7084.0	7036.8	6984.5	6947.2	6917.4	6892.5	6932.3
5°	7108.9	7034.2	6897.5	6750.8	6576.8	6440.0	6325.6	6218.7	6144.0	6094.4	6129.1
7.5°	6895.1	6773.2	6559.3	6293.3	5994.9	5741.2	5532.5	5348.5	5221.6	5139.5	5171.9
10°	6773.2	6621.4	6290.8	5873.0	5432.9	5037.6	4709.4	4425.9	4229.5	4117.7	4135.0
12.5°	6743.4	6547.0	6089.3	5515.0	4913.3	4363.9	3901.3	3508.5	3232.4	3088.2	3093.1
15°	6765.7	6514.6	5900.4	5171.9	4411.1	3717.3	3140.4	2662.9	2342.3	2178.2	2175.7
17.5°	6803.0	6489.7	5701.4	4801.4	3901.3	3095.7	2451.7	1984.2	1700.7	1569.0	1559.0
20°	6842.8	6449.9	5477.7	4401.1	3371.6	2518.8	1919.5	1554.0	1375.0	1302.9	1297.9
22.5°	6899.9	6415.1	5246.4	3978.3	2852.0	2051.4	1578.9	1332.8	1238.2	1201.0	1196.0
25°	6991.9	6397.6	5000.2	3538.3	2384.6	1715.7	1375.0	1223.3	1168.6	1143.7	1141.3
27.5°	7146.1	6422.6	4769.0	3110.6	2004.2	1489.4	1260.7	1168.6	1128.8	1106.5	1103.9
30°	7345.1	6499.7	4525.4	2705.3	1708.2	1335.2	1191.0	1131.4	1099.0	1076.6	1076.6
32.5°	7675.8	6629.0	4269.3	2354.6	1496.9	1228.3	1138.8	1099.0	1071.8	1054.3	1051.7
35°	8163.1	6872.6	4030.6	2063.8	1345.2	1151.3	1094.0	1064.1	1044.3	1034.3	1034.3
37.5°	8871.8	7258.0	3819.2	1854.9	1253.2	1099.0	1051.7	1029.4	1016.9	1016.9	1016.9
40°	9824.0	7790.0	3647.6	1715.7	1201.0	1061.7	1019.5	1002.0	994.6	997.1	997.1
42.5°	11000.2	8481.4	3533.3	1618.6	1176.0	1039.4	997.1	982.1	974.7	972.2	974.7
45°	12340.4	9267.2	3520.9	1546.6	1151.3	1024.5	982.1	967.3	952.3	942.4	942.4
47.5°	13643.3	10065.3	3622.8	1521.8	1123.8	1007.1	969.6	954.8	932.4	910.0	910.0
50°	14794.6	10744.1	3759.5	1531.7	1113.9	982.1	949.8	942.4	907.6	882.7	880.2
52.5°	15709.6	11266.3	3871.5	1561.6	1123.8	964.8	925.0	927.5	890.1	862.8	860.3
55°	16443.1	11609.4	3841.5	1591.4	1146.2	954.8	902.6	907.6	877.7	850.4	850.4
57.5°	16763.8	11482.6	3510.9	1566.4	1163.7	957.3	885.2	905.1	880.2	855.4	855.4
60°	16075.1	10356.1	2891.8	1457.1	1141.3	949.8	877.7	915.0	912.6	887.6	885.2
62.5°	13991.4	8339.6	2242.8	1295.5	1064.1	912.6	857.8	912.6	939.8	932.4	929.9
65°	10783.9	5940.2	1713.1	1121.4	959.8	850.4	805.6	855.4	892.6	902.6	900.1
67.5°	6999.4	3640.2	1320.3	957.3	842.9	778.3	738.5	760.9	768.3	768.3	763.4
70°	3441.2	1959.3	1051.7	805.6	723.6	701.2	678.8	666.4	653.9	644.0	644.0
72.5°	1698.2	1280.5	865.4	681.3	624.1	614.1	609.2	594.3	584.3	571.9	566.9
75°	1255.7	1041.8	736.0	574.3	537.1	527.1	537.1	524.7	522.1	512.2	507.3
77.5°	1031.9	887.6	634.0	492.3	460.0	442.6	457.5	460.0	462.5	447.5	442.6
80°	837.9	750.9	529.6	407.7	377.9	365.5	375.5	395.3	400.3	377.9	367.9
82.5°	604.2	614.1	427.6	318.3	293.4	283.4	303.3	328.3	333.2	300.9	293.4
85°	507.3	512.2	328.3	226.2	201.4	186.5	218.8	243.6	261.1	228.8	221.2
87.5°	211.3	300.9	189.0	126.8	111.9	97.0	116.9	129.3	156.7	144.2	141.7
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)