

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: P192710

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12084.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

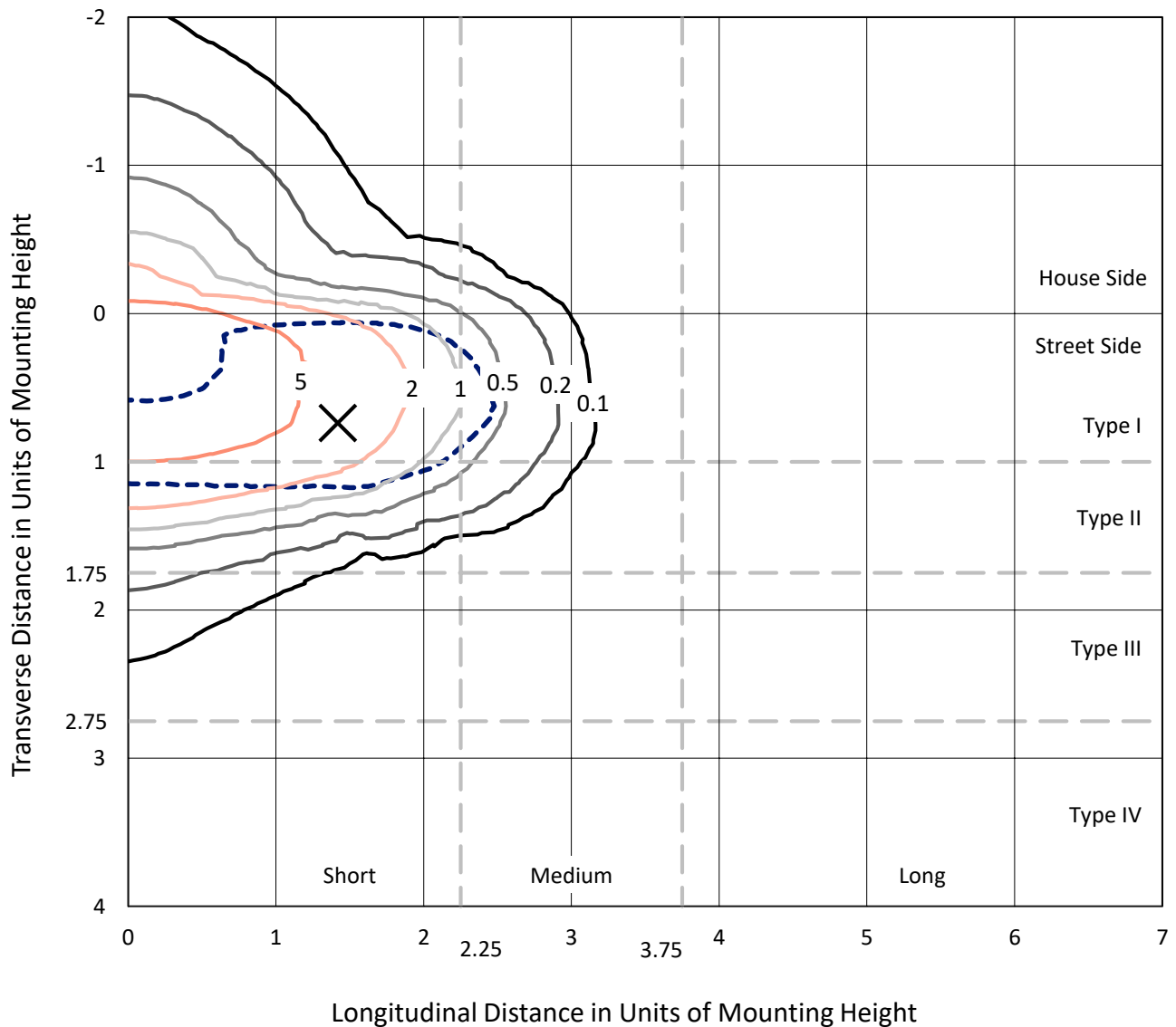
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

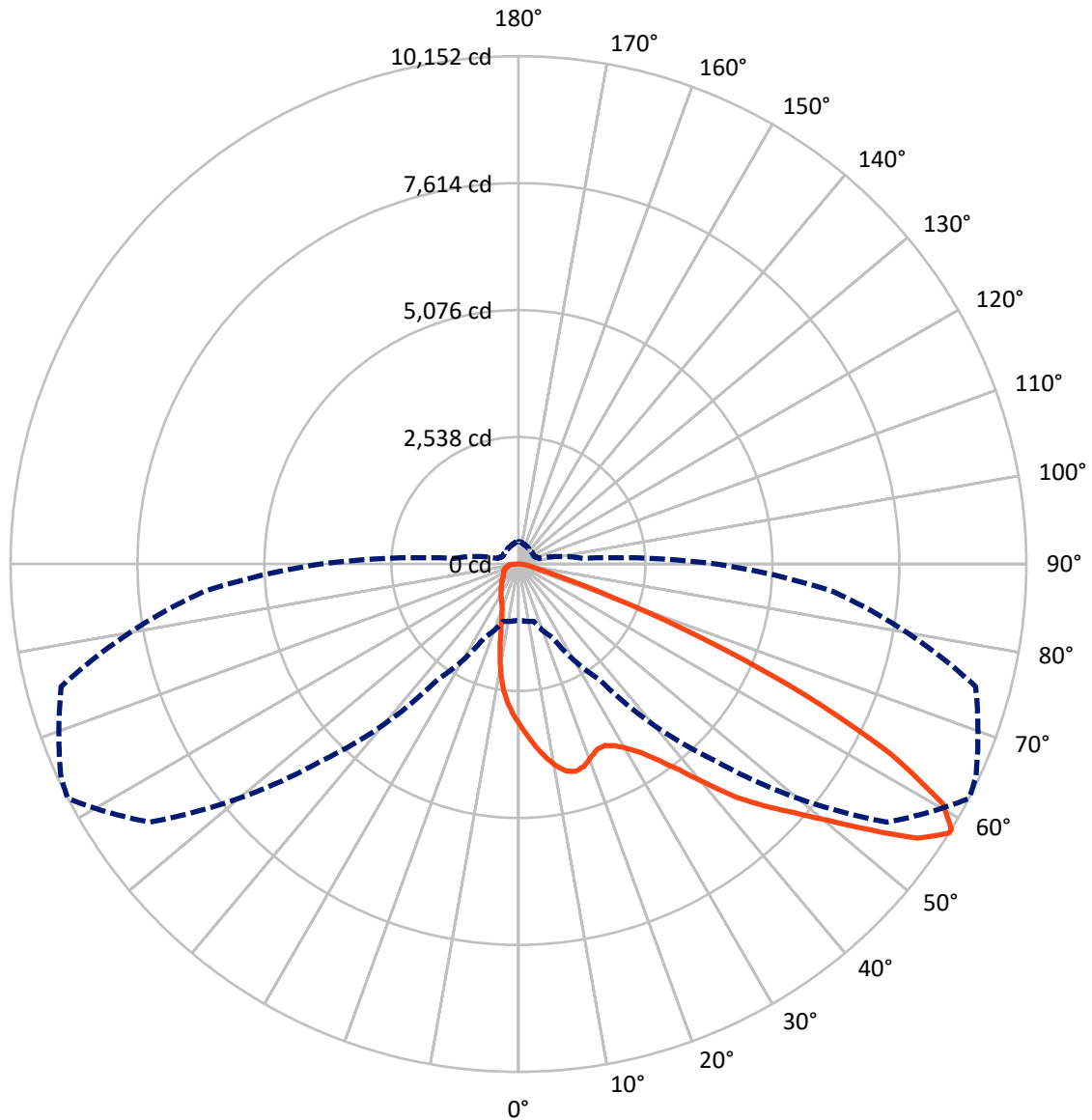
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.9	0.0	1842.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10241.2	0.0	10241.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	12084.1	0.0	12084.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	2.4
10°-20°	733.8	6.1
20°-30°	1186.2	9.8
30°-40°	1883.1	15.6
40°-50°	2755.4	22.8
50°-60°	2881.9	23.8
60°-70°	1702.7	14.1
70°-80°	479.6	4.0
80°-90°	174.1	1.4
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°	12084.1	100.0
0°-180°	12084.1	100.0



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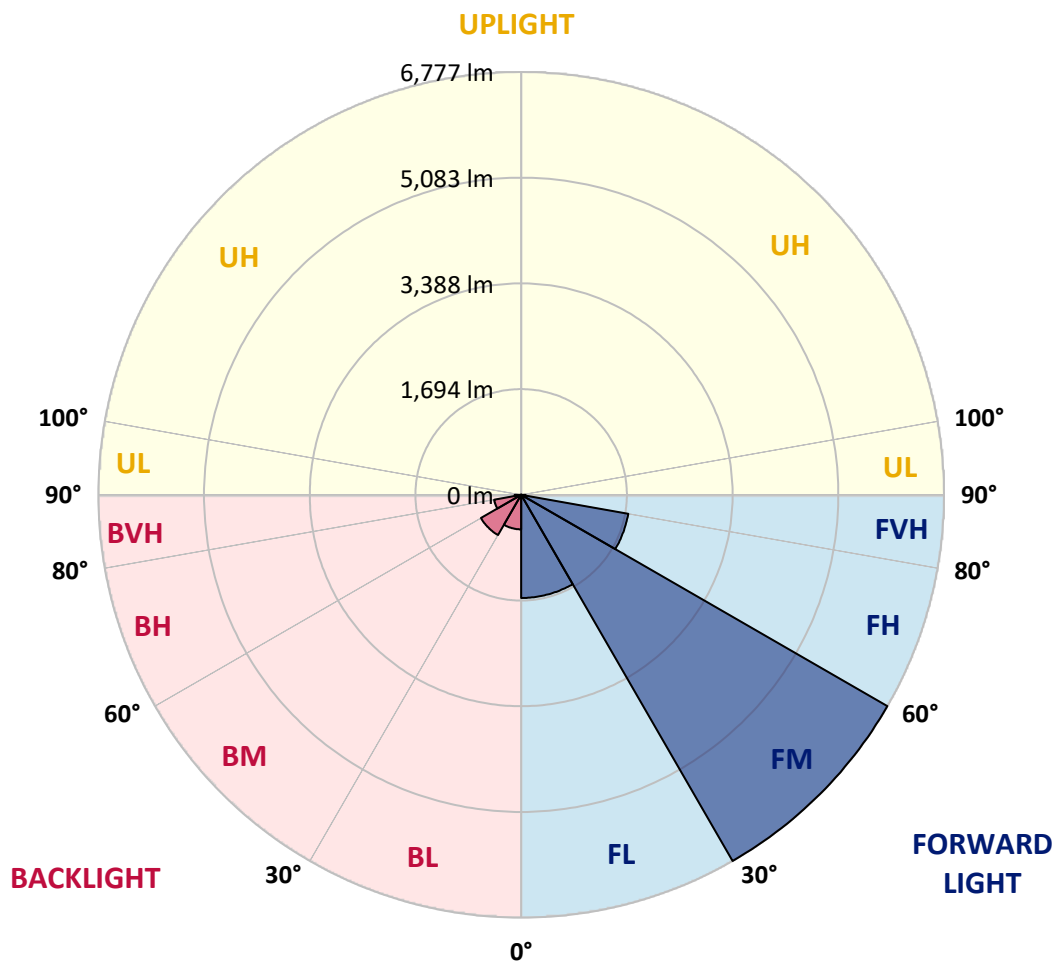
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1653.3	13.7			
FM	(30°-60°)	6776.7	56.1			
FH	(60°-80°)	1742.6	14.4			G1/1800
FVH	(80°-90°)	68.7	0.6			G1/100
BL	(0°-30°)	553.9	4.6	B2/1000		
BM	(30°-60°)	743.8	6.2	B1/1000		
BH	(60°-80°)	439.7	3.6	B1/500		G1/500
BVH	(80°-90°)	105.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9
2.5°	3668.0	3638.4	3619.5	3603.1	3581.4	3535.4	3473.4	3434.1	3414.2	3346.5	3266.2
5°	4027.7	4001.4	3982.1	3959.9	3921.2	3848.8	3748.8	3669.2	3629.8	3494.4	3333.9
7.5°	3943.3	3954.2	3987.8	4046.3	4096.4	4086.8	3997.5	3896.1	3844.4	3656.1	3412.5
10°	3435.7	3454.6	3512.5	3649.7	3871.7	4099.3	4168.7	4098.8	4046.3	3815.9	3493.2
12.5°	3333.9	3333.4	3337.9	3374.4	3506.3	3826.7	4174.4	4244.9	4213.7	3968.4	3575.7
15°	3375.4	3376.6	3373.2	3388.5	3429.5	3556.4	4000.3	4301.3	4323.5	4122.1	3661.2
17.5°	3484.8	3481.9	3468.8	3468.8	3483.6	3533.1	3795.4	4249.0	4351.4	4258.1	3736.2
20°	3668.0	3654.8	3620.2	3588.3	3572.3	3599.1	3711.2	4128.3	4302.9	4376.9	3798.3
22.5°	3889.8	3879.7	3823.3	3755.0	3699.8	3699.3	3754.4	4023.0	4219.4	4489.0	3850.7
25°	4176.7	4160.1	4076.6	3967.3	3870.5	3833.6	3848.8	4017.9	4173.8	4610.8	3897.3
27.5°	4513.5	4483.4	4384.3	4226.7	4084.4	4010.0	3987.8	4110.7	4215.3	4761.6	3962.2
30°	4922.1	4887.3	4760.5	4555.0	4354.2	4231.8	4184.6	4275.1	4353.1	4945.4	4066.3
32.5°	5387.0	5336.9	5190.2	4963.6	4699.6	4513.0	4436.2	4492.5	4554.5	5166.8	4196.5
35°	6029.5	5969.7	5757.4	5445.1	5146.8	4890.2	4767.3	4808.3	4868.6	5496.9	4384.9
37.5°	6467.6	6440.9	6299.7	6006.1	5681.7	5386.4	5196.4	5220.3	5254.4	5909.4	4626.1
40°	6463.6	6474.3	6477.2	6480.0	6259.4	5976.5	5772.2	5747.1	5740.4	6362.2	4900.5
42.5°	6139.9	6184.2	6327.6	6618.4	6752.7	6623.0	6435.7	6363.5	6327.6	6896.0	5191.2
45°	5644.3	5668.1	5936.7	6504.5	7005.2	7263.1	7121.4	6893.8	6828.9	7386.6	5432.5
47.5°	5388.6	5414.9	5583.9	6202.9	7002.4	7780.4	7862.3	7428.6	7312.6	7813.3	5640.7
50°	4780.4	4835.0	5047.9	5678.3	6747.0	8018.2	8636.7	8065.9	7825.8	8228.8	5849.6
52.5°	3663.4	3747.6	3986.0	4815.7	6098.9	7900.4	9256.3	8838.7	8499.6	8658.9	6028.8
55°	2310.9	2373.4	2573.7	3401.1	4878.9	7287.6	9491.4	9674.6	9373.1	9066.4	6184.2
57.5°	1256.4	1284.4	1359.4	1877.8	3173.4	5932.7	9148.9	10150.3	10025.2	9412.2	6301.4
58°	1124.4	1143.2	1189.9	1627.4	2814.4	5562.3	8997.0	10152.1	10089.4	9463.0	6310.5
60°	834.2	824.5	783.0	928.7	1566.6	3842.6	8078.5	9745.7	9929.6	9525.0	6266.1
62.5°	732.9	709.5	624.8	615.1	762.0	1770.2	6181.4	8348.2	8782.4	9171.0	5996.3
65°	688.6	663.5	554.3	519.0	549.7	748.9	3641.2	6261.0	6805.5	8097.9	5306.7
67.5°	655.5	623.1	509.2	461.0	463.2	495.1	1459.6	3943.3	4556.2	6148.3	4127.7
70°	623.7	588.4	471.1	415.4	402.3	391.4	580.3	1974.0	2529.9	3883.6	2631.7
72.5°	589.6	554.8	437.6	379.5	353.9	318.1	379.0	807.4	1127.8	1837.4	1193.7
75°	540.0	508.7	404.0	347.7	311.3	263.5	286.3	421.6	505.9	731.8	575.2
77.5°	479.1	453.5	366.4	321.6	276.0	213.9	220.2	292.5	324.4	418.8	342.0
80°	344.2	353.4	326.0	289.1	245.9	173.5	169.1	213.4	230.4	269.1	222.5
82.5°	241.8	246.9	269.8	236.1	203.1	136.6	124.7	150.2	160.5	177.0	120.0
85°	166.7	161.0	184.9	164.4	146.9	91.0	85.3	101.8	108.1	109.8	62.1
87.5°	100.2	100.2	107.0	88.2	79.1	47.2	46.1	58.0	62.1	59.2	34.1
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°	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9
2.5°	3218.4	3178.1	3092.1	3023.2	2936.3	2845.6	2795.1	2741.0	2704.0	2677.3	2720.0
5°	3243.0	3160.5	2982.9	2814.4	2628.3	2434.9	2288.1	2151.6	2056.5	1997.3	2053.1
7.5°	3281.6	3154.7	2871.9	2584.0	2249.9	1927.9	1640.0	1459.6	1354.3	1302.5	1334.9
10°	3326.0	3145.6	2741.6	2271.6	1793.6	1387.8	1172.8	1099.9	1075.9	1066.4	1071.0
12.5°	3363.0	3126.2	2581.7	1893.7	1346.8	1096.0	1033.9	1032.2	1037.3	1038.5	1040.1
15°	3389.1	3097.8	2344.3	1499.9	1077.2	998.6	995.3	1005.5	1015.1	1019.2	1021.3
17.5°	3406.8	3039.1	2076.4	1185.9	965.1	951.4	959.4	972.5	982.7	985.5	987.8
20°	3405.1	2953.3	1757.1	989.1	904.2	904.2	917.9	928.0	928.7	925.2	926.9
22.5°	3387.5	2835.5	1447.5	884.2	850.1	859.8	873.4	863.8	824.0	797.8	799.4
25°	3357.9	2694.9	1182.4	817.7	800.1	817.1	813.1	740.3	683.4	657.8	657.8
27.5°	3331.7	2528.8	978.8	759.7	749.9	771.1	700.5	634.5	610.5	598.6	594.6
30°	3312.8	2349.5	842.7	703.8	702.7	687.4	607.7	589.6	585.5	575.9	572.4
32.5°	3317.4	2168.0	755.6	654.9	659.0	588.4	563.3	567.3	563.9	553.6	549.1
35°	3355.1	1995.6	698.7	610.5	598.6	531.4	537.1	544.5	543.4	529.2	524.7
37.5°	3422.1	1832.3	661.2	573.6	522.4	503.0	512.1	523.5	520.6	511.0	507.6
40°	3492.7	1678.7	630.5	544.5	477.5	483.7	491.6	497.9	500.7	503.5	501.3
42.5°	3561.6	1518.1	592.9	514.9	458.7	465.5	468.8	475.2	490.5	501.3	500.7
45°	3602.5	1367.4	554.3	472.9	443.8	447.9	445.6	458.1	476.8	494.5	495.1
47.5°	3648.0	1250.2	523.5	434.2	429.6	432.4	425.7	438.1	455.2	476.8	479.1
50°	3703.3	1180.2	499.0	403.5	410.3	410.3	408.5	420.0	443.8	468.8	473.4
52.5°	3765.8	1166.6	478.5	381.2	390.9	390.4	392.0	409.1	435.3	459.8	463.8
55°	3842.1	1203.5	456.3	364.7	372.1	374.4	380.1	399.5	421.6	449.5	451.2
57.5°	3930.8	1278.6	438.6	351.7	355.1	362.5	371.6	389.2	413.1	443.8	445.6
58°	3945.7	1294.5	435.8	350.5	351.7	360.2	370.4	387.6	411.4	445.0	446.7
60°	3946.2	1347.5	429.6	345.4	338.6	352.8	364.2	381.2	408.5	448.9	453.0
62.5°	3806.3	1346.8	425.0	338.0	324.9	342.5	355.6	375.6	405.7	458.7	466.6
65°	3351.5	1224.0	403.5	326.5	314.1	333.5	348.2	371.6	413.6	500.7	505.9
67.5°	2621.5	1003.2	363.1	310.8	299.9	324.4	343.7	371.1	422.2	510.5	513.8
70°	1733.3	750.5	318.7	292.5	285.0	313.6	346.0	390.4	412.6	489.9	480.8
72.5°	899.6	526.9	282.8	269.8	268.0	303.8	379.0	388.1	402.8	461.0	449.5
75°	472.3	365.9	251.6	244.6	247.6	301.5	447.3	377.8	390.4	441.0	462.6
77.5°	289.1	295.3	224.7	221.9	227.6	294.8	446.7	364.7	372.1	405.7	429.6
80°	193.5	239.6	204.4	204.9	208.8	269.8	401.2	344.2	349.9	383.5	408.0
82.5°	122.4	141.7	185.5	195.1	190.0	222.5	340.9	313.6	321.6	438.6	463.8
85°	62.1	88.7	161.0	187.8	171.3	155.9	276.5	274.8	278.8	316.5	330.6
87.5°	28.4	48.9	125.7	163.9	129.2	97.4	200.8	203.7	219.6	224.7	224.7
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)