

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: P192701

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192701
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-03-LED-U-AFL-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14568.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

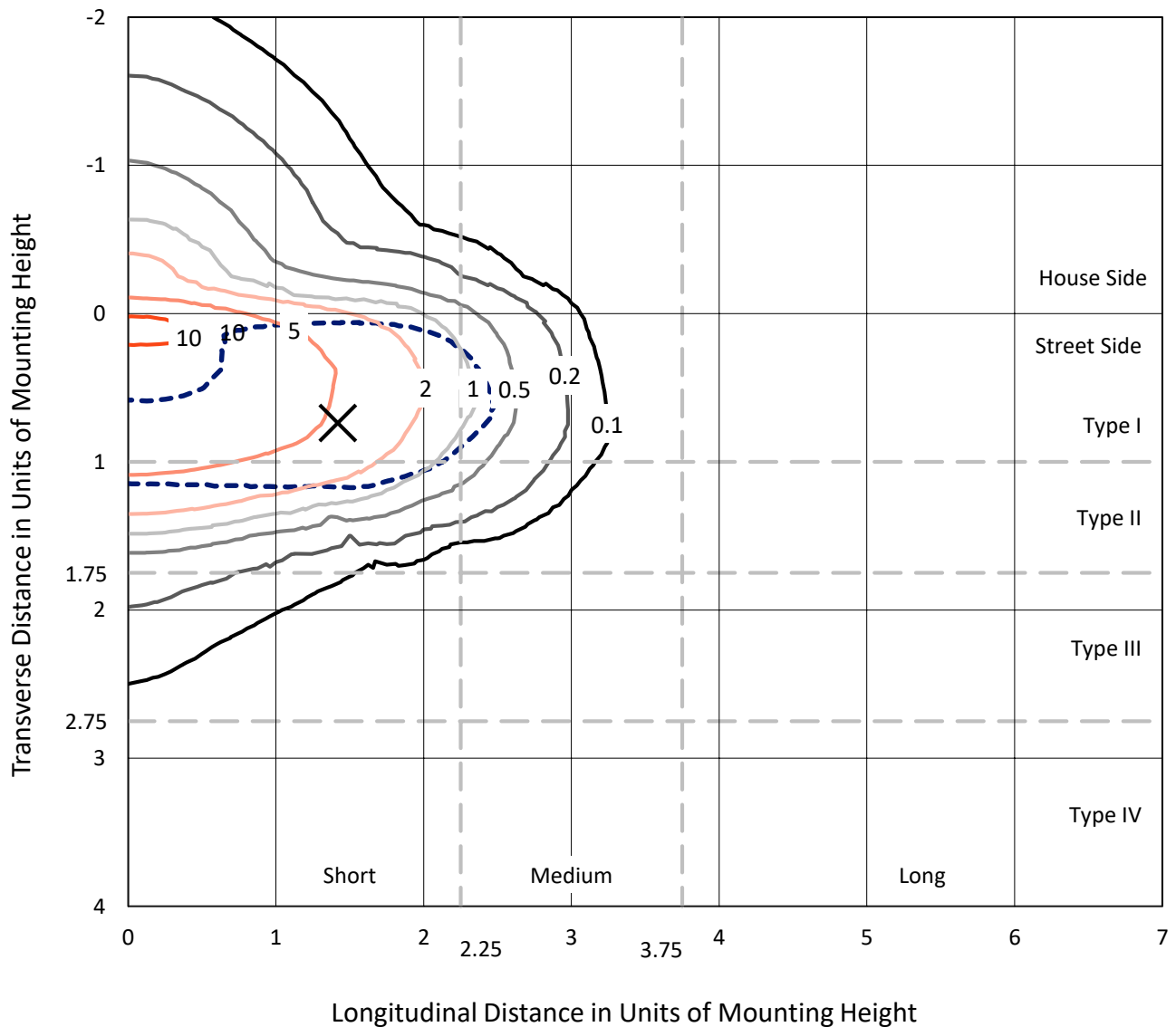


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

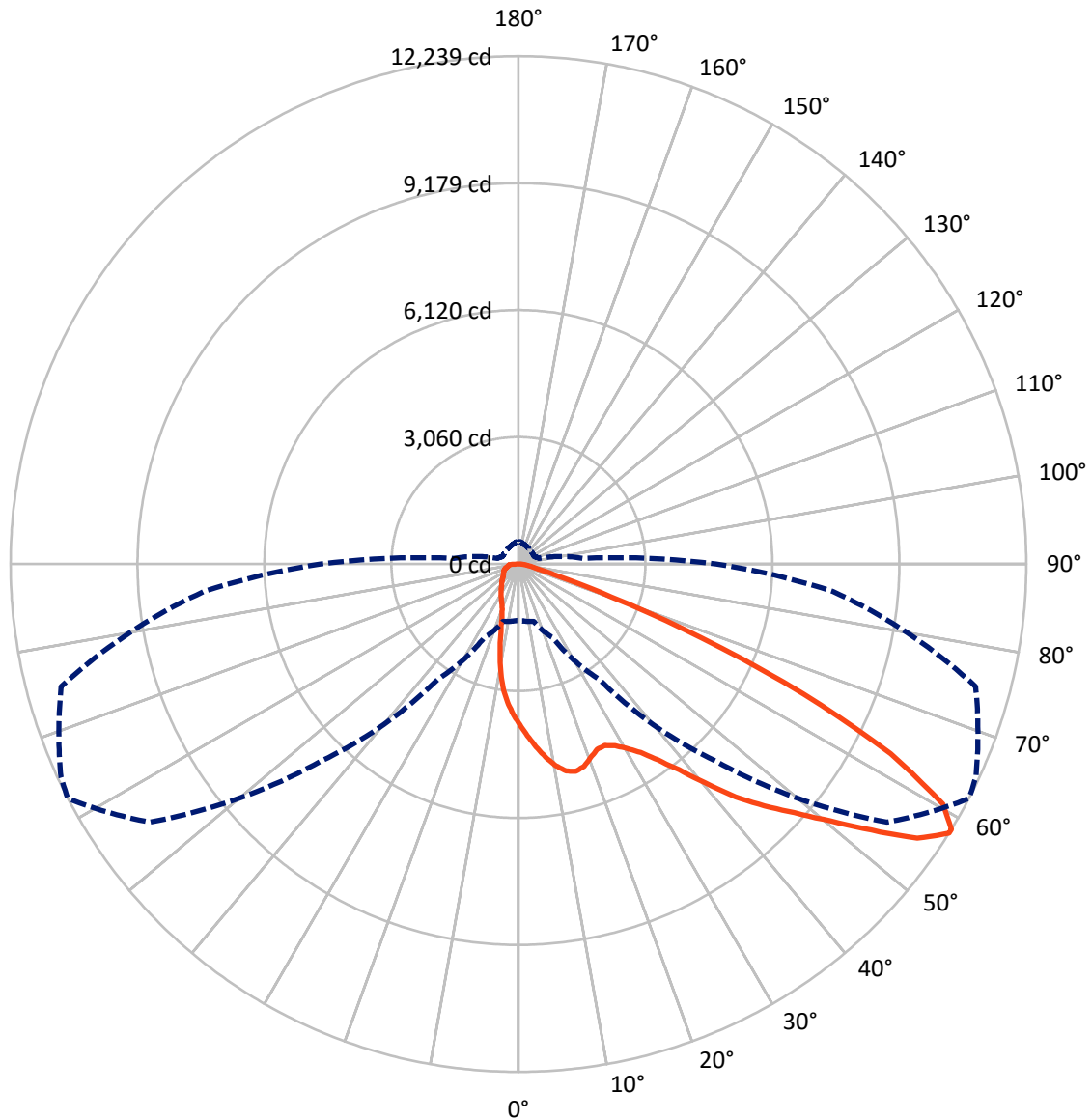


Based on 20 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Full Cutoff

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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	2221.8	0.0	2221.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12346.9	0.0	12346.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	14568.6	0.0	14568.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	2.4
10°-20°	884.7	6.1
20°-30°	1430.1	9.8
30°-40°	2270.3	15.6
40°-50°	3322.0	22.8
50°-60°	3474.5	23.8
60°-70°	2052.7	14.1
70°-80°	578.3	4.0
80°-90°	210.0	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°	14568.6	100.0
0°-180°	14568.6	100.0



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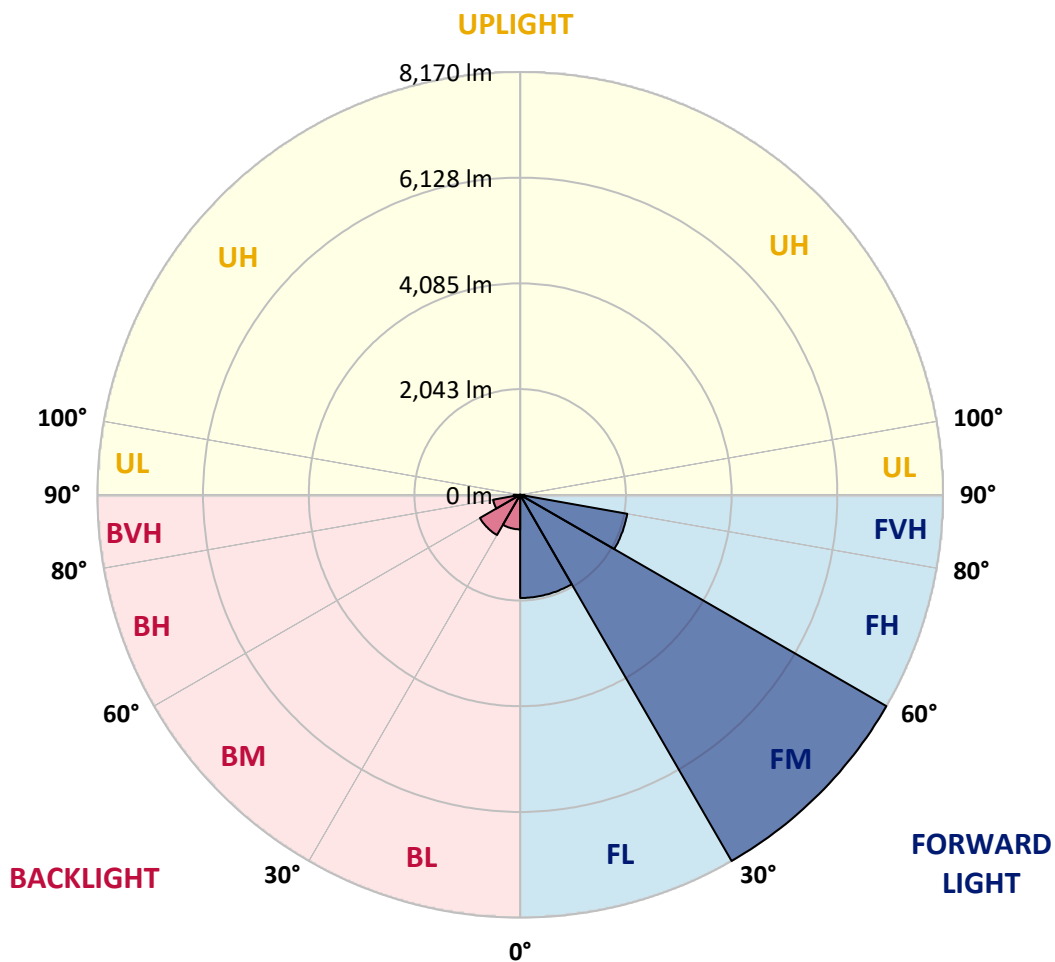
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1993.2	13.7			
FM	(30°-60°)	8170.0	56.1			
FH	(60°-80°)	2100.9	14.4			G2/5000
FVH	(80°-90°)	82.8	0.6			G1/100
BL	(0°-30°)	667.8	4.6	B2/1000		
BM	(30°-60°)	896.8	6.2	B1/1000		
BH	(60°-80°)	530.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	127.1	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°	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9
2.5°	4422.2	4386.4	4363.9	4343.9	4317.8	4262.3	4187.5	4140.2	4116.2	4034.5	3937.8
5°	4855.7	4824.2	4800.8	4774.1	4727.4	4640.2	4519.5	4423.5	4376.2	4212.8	4019.4
7.5°	4754.2	4767.2	4807.6	4878.3	4938.7	4927.0	4819.3	4697.2	4634.8	4407.7	4114.0
10°	4142.2	4164.9	4234.8	4400.2	4667.7	4942.2	5025.8	4941.5	4878.3	4600.5	4211.5
12.5°	4019.4	4018.8	4024.2	4068.2	4227.2	4613.5	5032.7	5117.7	5080.0	4784.4	4311.0
15°	4069.5	4070.9	4066.7	4085.3	4134.7	4287.7	4822.7	5185.7	5212.4	4969.5	4413.8
17.5°	4201.2	4197.7	4182.0	4182.0	4199.8	4259.5	4575.8	5122.5	5246.0	5133.5	4504.4
20°	4422.2	4406.3	4364.5	4326.0	4306.9	4339.1	4474.2	4977.1	5187.7	5276.9	4579.2
22.5°	4689.6	4677.3	4609.4	4527.0	4460.5	4459.9	4526.4	4850.2	5086.9	5412.0	4642.3
25°	5035.4	5015.5	4914.7	4783.0	4666.4	4621.7	4640.2	4844.0	5031.9	5558.9	4698.5
27.5°	5441.5	5405.2	5285.9	5095.8	4924.4	4834.4	4807.6	4955.8	5082.0	5740.7	4776.9
30°	5934.1	5892.3	5739.3	5491.6	5249.5	5102.0	5045.0	5154.1	5248.0	5962.3	4902.4
32.5°	6494.6	6434.2	6257.2	5984.2	5665.8	5440.9	5348.2	5416.2	5491.0	6229.1	5059.5
35°	7269.1	7197.1	6941.2	6564.6	6205.1	5895.7	5747.5	5796.9	5869.6	6627.0	5286.5
37.5°	7797.4	7765.0	7594.9	7240.9	6849.9	6494.0	6264.8	6293.6	6334.8	7124.4	5577.3
40°	7792.6	7805.6	7809.0	7812.5	7546.2	7205.3	6959.0	6928.7	6920.6	7670.4	5908.0
42.5°	7402.2	7455.8	7628.6	7979.1	8141.0	7984.6	7758.9	7671.8	7628.6	8314.0	6258.6
45°	6804.6	6833.5	7157.2	7842.0	8445.6	8756.4	8585.6	8311.2	8233.0	8905.2	6549.4
47.5°	6496.7	6528.2	6731.9	7478.4	8442.3	9380.0	9478.8	8956.1	8816.1	9419.8	6800.6
50°	5763.3	5829.1	6085.7	6845.8	8134.2	9666.7	10412.5	9724.4	9434.9	9920.6	7052.3
52.5°	4416.6	4518.2	4805.6	5805.8	7352.8	9524.7	11159.5	10656.0	10247.1	10439.1	7268.5
55°	2785.9	2861.4	3102.9	4100.4	5882.0	8785.9	11442.8	11663.8	11300.1	10930.4	7455.8
57.5°	1514.8	1548.3	1638.9	2263.9	3825.9	7152.4	11029.9	12237.2	12086.4	11347.5	7597.1
58°	1355.6	1378.2	1434.5	1962.1	3393.0	6705.9	10846.7	12239.3	12163.9	11408.6	7608.0
60°	1005.7	994.0	944.0	1119.6	1888.6	4632.7	9739.5	11749.5	11971.1	11483.3	7554.5
62.5°	883.6	855.5	753.3	741.6	918.6	2134.3	7452.2	10064.6	10588.1	11056.6	7229.3
65°	830.1	799.9	668.2	625.6	662.6	902.8	4389.8	7548.2	8204.9	9762.8	6397.9
67.5°	790.3	751.1	614.0	555.7	558.5	596.9	1759.6	4754.2	5493.0	7412.4	4976.4
70°	751.9	709.3	568.0	500.9	485.0	472.0	699.7	2379.7	3050.1	4682.1	3172.9
72.5°	710.7	668.8	527.5	457.6	426.6	383.5	456.9	973.5	1359.7	2215.1	1439.3
75°	651.0	613.3	487.1	419.1	375.3	317.6	345.0	508.4	609.8	882.3	693.6
77.5°	577.7	546.8	441.9	387.7	332.7	258.0	265.5	352.6	391.0	504.9	412.4
80°	415.0	426.0	393.2	348.5	296.3	209.2	203.8	257.3	277.8	324.5	268.2
82.5°	291.6	297.7	325.1	284.7	245.0	164.7	150.2	181.2	193.5	213.4	144.8
85°	201.0	194.2	223.0	198.3	177.0	109.8	102.9	122.8	130.3	132.4	74.8
87.5°	120.7	120.7	128.9	106.3	95.4	57.0	55.6	69.9	74.8	71.3	41.2
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°	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9	3869.9
2.5°	3880.2	3831.4	3727.8	3644.9	3539.9	3430.8	3369.8	3304.5	3260.0	3227.7	3279.2
5°	3909.7	3810.2	3596.2	3393.0	3168.7	2935.5	2758.5	2593.9	2479.3	2408.0	2475.2
7.5°	3956.3	3803.4	3462.3	3115.2	2712.6	2324.3	1977.1	1759.6	1632.8	1570.3	1609.4
10°	4009.9	3792.4	3305.3	2738.6	2162.3	1673.2	1414.0	1326.1	1297.2	1285.7	1291.1
12.5°	4054.4	3769.0	3112.5	2283.1	1623.8	1321.3	1246.5	1244.5	1250.6	1252.0	1254.1
15°	4086.0	3734.7	2826.4	1808.4	1298.6	1203.9	1199.8	1212.2	1223.8	1228.6	1231.5
17.5°	4107.3	3664.0	2503.3	1429.6	1163.5	1147.0	1156.6	1172.5	1184.8	1188.2	1190.9
20°	4105.2	3560.4	2118.4	1192.3	1090.1	1090.1	1106.6	1119.0	1119.6	1115.4	1117.5
22.5°	4083.9	3418.5	1745.2	1066.1	1025.0	1036.6	1053.0	1041.4	993.3	961.8	963.8
25°	4048.3	3249.1	1425.5	985.8	964.5	985.1	980.3	892.5	824.0	793.0	793.0
27.5°	4016.7	3048.7	1180.0	915.8	904.2	929.6	844.5	765.0	736.1	721.6	716.8
30°	3994.1	2832.5	1016.0	848.6	847.2	828.7	732.7	710.7	706.0	694.3	690.2
32.5°	3999.6	2613.7	911.0	789.6	794.5	709.3	679.1	684.0	679.8	667.5	662.0
35°	4044.8	2405.9	842.4	736.1	721.6	640.7	647.6	656.5	655.1	638.0	632.5
37.5°	4125.7	2209.0	797.1	691.5	629.8	606.5	617.5	631.2	627.7	616.0	612.0
40°	4210.9	2023.8	760.1	656.5	575.6	583.1	592.7	600.3	603.6	607.2	604.4
42.5°	4293.8	1830.3	714.9	620.8	553.0	561.1	565.3	572.8	591.3	604.4	603.6
45°	4343.2	1648.5	668.2	570.2	535.2	539.8	537.1	552.2	574.9	596.1	596.9
47.5°	4398.1	1507.2	631.2	523.5	518.0	521.3	513.2	528.3	548.8	574.9	577.7
50°	4464.7	1422.8	601.7	486.4	494.6	494.6	492.5	506.3	535.2	565.3	570.8
52.5°	4540.2	1406.3	577.0	459.7	471.4	470.6	472.6	493.3	524.8	554.3	559.1
55°	4632.0	1451.0	550.2	439.8	448.6	451.4	458.3	481.7	508.4	541.9	544.0
57.5°	4739.0	1541.5	529.0	423.9	428.1	437.0	448.0	469.3	498.0	535.2	537.1
58°	4756.9	1560.7	525.5	422.7	423.9	434.3	446.7	467.2	496.0	536.5	538.5
60°	4757.5	1624.4	518.0	416.4	408.2	425.3	439.0	459.7	492.5	541.3	546.1
62.5°	4588.8	1623.8	512.4	407.5	391.7	413.0	428.8	452.8	489.2	553.0	562.5
65°	4040.6	1475.6	486.4	393.8	378.7	402.0	419.9	448.0	498.8	603.6	609.8
67.5°	3160.6	1209.5	437.7	374.5	361.5	391.0	414.3	447.3	509.0	615.3	619.5
70°	2089.6	904.8	384.1	352.6	343.7	378.0	417.2	470.6	497.3	590.6	579.7
72.5°	1084.6	635.3	341.0	325.1	323.1	366.3	456.9	467.8	485.6	555.7	541.9
75°	569.4	441.1	303.2	295.0	298.4	363.7	539.2	455.5	470.6	531.6	557.8
77.5°	348.5	356.0	271.0	267.5	274.5	355.3	538.5	439.8	448.6	489.2	518.0
80°	233.3	288.8	246.3	246.9	251.8	325.1	483.7	415.0	421.8	462.3	491.8
82.5°	147.5	170.8	223.7	235.4	229.1	268.2	411.0	378.0	387.7	529.0	559.1
85°	74.8	107.1	194.2	226.3	206.5	187.9	333.5	331.4	336.2	381.5	398.6
87.5°	34.3	59.0	151.7	197.5	155.7	117.4	242.1	245.7	264.9	271.0	271.0
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)