

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: P190953

Luminaire Tested: **GAN-AF-05-LED-U-AFL-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190953
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-05-LED-U-AFL-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20570.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

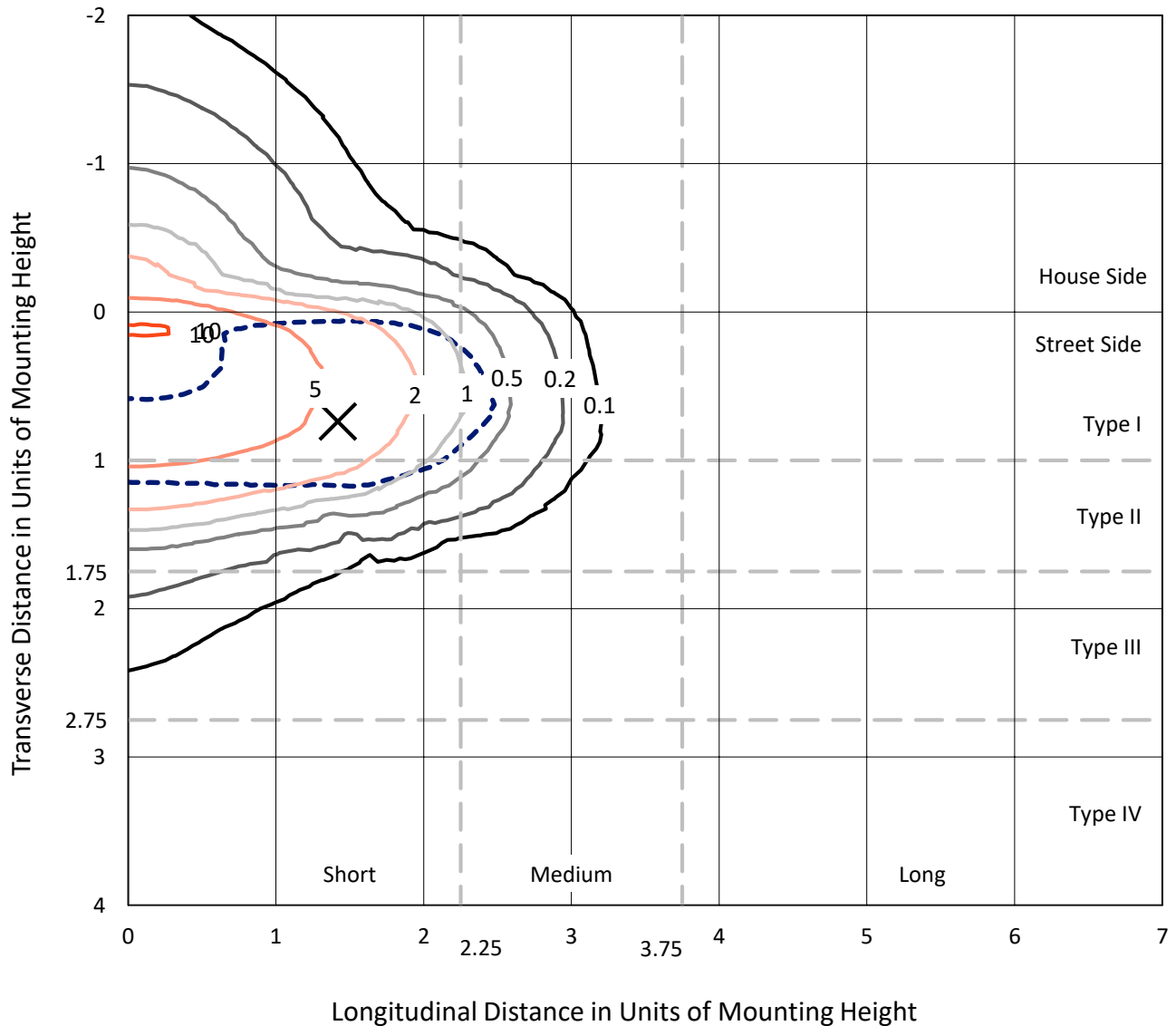
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

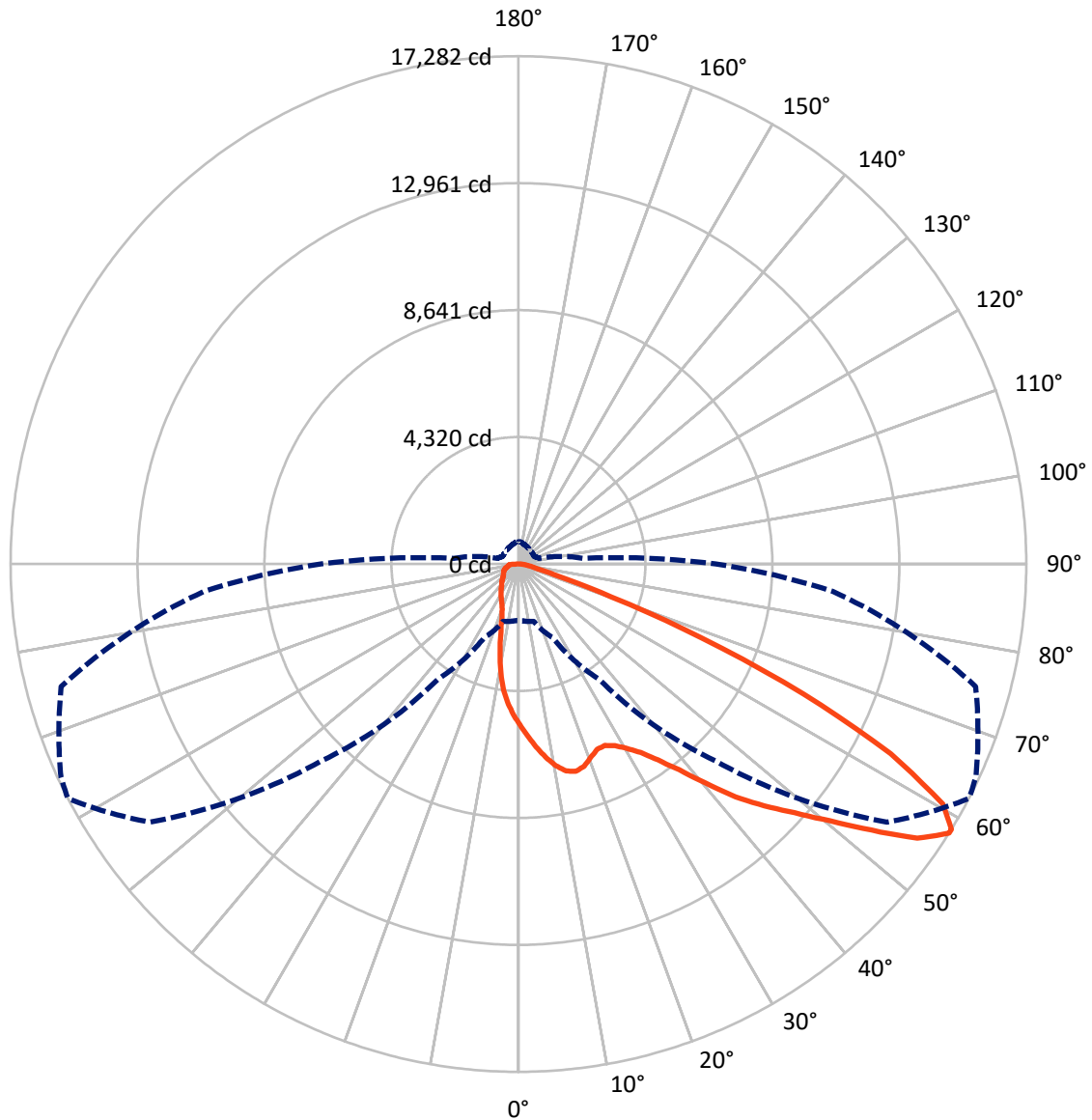
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	3137.1	0.0	3137.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17433.4	0.0	17433.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	20570.5	0.0	20570.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	2.4
10°-20°	1249.2	6.1
20°-30°	2019.3	9.8
30°-40°	3205.6	15.6
40°-50°	4690.5	22.8
50°-60°	4905.9	23.8
60°-70°	2898.4	14.1
70°-80°	816.5	4.0
80°-90°	296.4	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°	20570.5	100.0
0°-180°	20570.5	100.0



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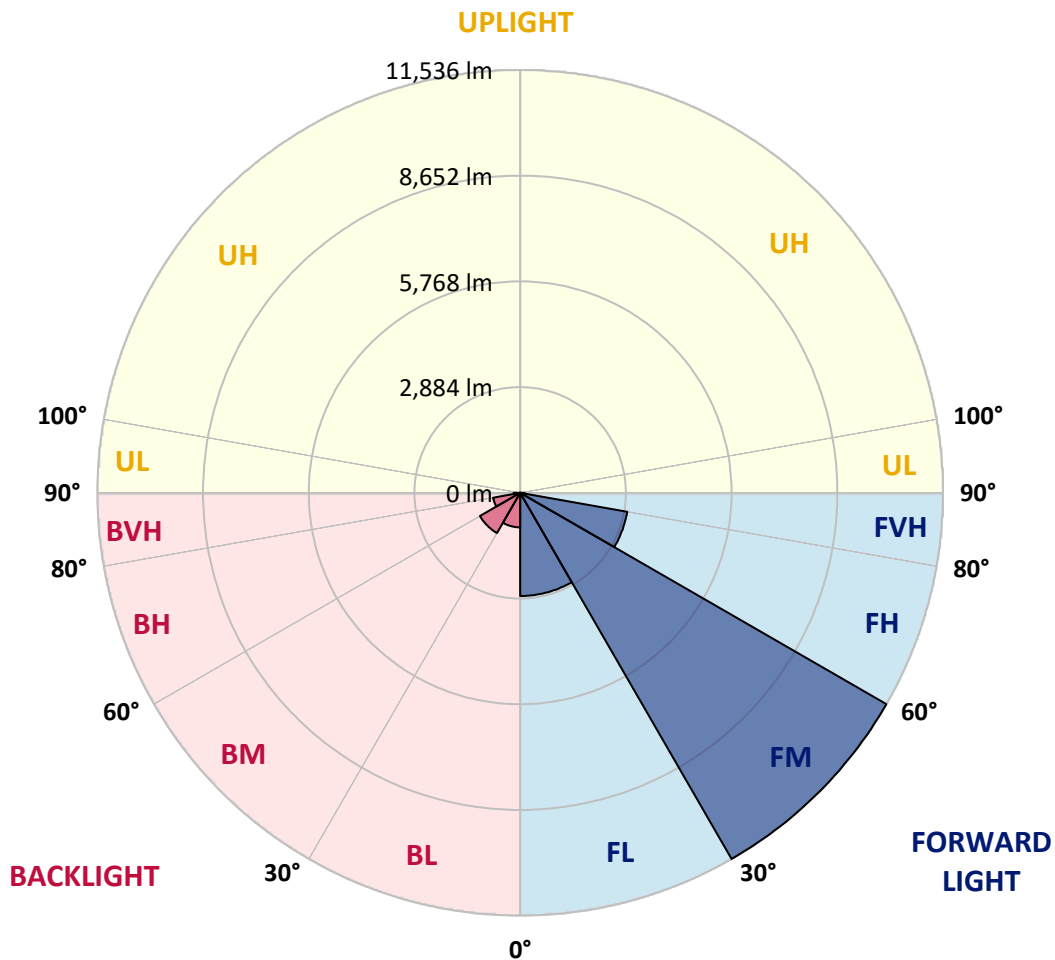
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2814.3	13.7			
FM	(30°-60°)	11535.8	56.1			
FH	(60°-80°)	2966.4	14.4			G2/5000
FVH	(80°-90°)	116.9	0.6			G2/225
BL	(0°-30°)	942.9	4.6	B2/1000		
BM	(30°-60°)	1266.2	6.2	B2/2500		
BH	(60°-80°)	748.5	3.6	B2/1000		G2/1000
BVH	(80°-90°)	179.5	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°	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1
2.5°	6243.9	6193.6	6161.5	6133.5	6096.7	6018.2	5912.7	5845.8	5811.9	5696.6	5560.0
5°	6856.1	6811.5	6778.6	6740.8	6675.0	6551.9	6381.5	6245.8	6179.0	5948.5	5675.3
7.5°	6712.7	6731.1	6788.3	6888.0	6973.3	6956.8	6804.8	6632.3	6544.2	6223.5	5808.9
10°	5848.7	5880.6	5979.5	6212.9	6590.7	6978.2	7096.3	6977.1	6888.0	6495.7	5946.5
12.5°	5675.3	5674.3	5682.1	5744.1	5968.8	6514.2	7106.0	7226.1	7172.8	6755.4	6087.0
15°	5746.0	5748.0	5742.1	5768.3	5838.1	6054.0	6809.6	7322.0	7359.8	7016.9	6232.2
17.5°	5932.0	5927.2	5904.9	5904.9	5930.0	6014.3	6460.9	7232.9	7407.3	7248.4	6360.1
20°	6243.9	6221.6	6162.6	6108.2	6081.1	6126.7	6317.5	7027.6	7324.9	7450.9	6465.8
22.5°	6621.7	6604.3	6508.3	6392.1	6298.1	6297.2	6391.1	6848.3	7182.5	7641.6	6554.9
25°	7109.9	7081.8	6939.4	6753.4	6588.7	6525.8	6551.9	6839.7	7105.0	7849.0	6634.2
27.5°	7683.3	7631.9	7463.4	7195.1	6953.0	6826.0	6788.3	6997.5	7175.7	8105.7	6744.7
30°	8378.8	8319.8	8103.7	7754.1	7412.1	7203.8	7123.4	7277.5	7410.2	8418.5	6922.0
32.5°	9170.1	9084.9	8835.0	8449.5	8000.1	7682.4	7551.5	7647.5	7753.0	8795.3	7143.8
35°	10263.8	10162.1	9800.8	9269.0	8761.4	8324.6	8115.4	8185.0	8287.7	9357.1	7464.4
37.5°	11009.6	10964.1	10723.9	10224.1	9671.9	9169.2	8845.7	8886.4	8944.5	10059.4	7875.1
40°	11002.9	11021.3	11026.1	11031.0	10655.2	10173.7	9826.0	9783.3	9771.7	10830.5	8342.0
42.5°	10451.7	10527.3	10771.4	11266.4	11494.9	11274.0	10955.4	10832.3	10771.4	11739.1	8837.0
45°	9608.0	9648.7	10105.9	11072.6	11925.0	12363.8	12122.6	11735.2	11624.7	12574.0	9247.7
47.5°	9173.1	9217.6	9505.4	10559.2	11920.1	13244.3	13383.8	12645.7	12448.1	13300.5	9602.2
50°	8137.6	8230.6	8592.9	9666.2	11485.3	13649.2	14702.2	13730.6	13321.8	14007.6	9957.7
52.5°	6236.1	6379.5	6785.3	8197.6	10381.9	13448.7	15757.0	15046.0	14468.7	14739.9	10262.9
55°	3933.7	4040.2	4381.2	5789.6	8305.1	12405.4	16157.0	16468.9	15955.6	15433.5	10527.3
57.5°	2138.8	2186.3	2314.1	3196.5	5402.1	10099.1	15573.9	17278.8	17065.6	16022.4	10726.8
58°	1914.0	1946.1	2025.4	2770.4	4790.9	9468.5	15315.3	17281.6	17175.0	16108.6	10742.3
60°	1420.1	1403.6	1332.9	1580.9	2666.7	6541.3	13751.8	16590.0	16902.9	16214.2	10666.7
62.5°	1247.6	1207.9	1063.6	1047.1	1297.0	3013.5	10522.4	14211.0	14950.1	15611.7	10207.6
65°	1172.1	1129.4	943.5	883.4	935.7	1274.7	6198.4	10658.0	11585.0	13784.8	9033.6
67.5°	1115.8	1060.7	867.0	784.6	788.5	842.7	2484.5	6712.7	7755.9	10466.2	7026.5
70°	1061.6	1001.6	802.0	707.1	684.9	666.5	988.1	3360.2	4306.6	6611.0	4480.0
72.5°	1003.5	944.4	744.9	646.1	602.5	541.4	645.1	1374.5	1919.9	3127.8	2032.2
75°	919.2	865.9	687.7	591.9	529.9	448.5	487.2	717.8	861.1	1245.6	979.3
77.5°	815.6	772.0	623.8	547.3	469.8	364.2	374.9	497.9	552.1	712.9	582.2
80°	586.0	601.5	555.1	492.0	418.5	295.4	287.7	363.2	392.3	458.2	378.7
82.5°	411.6	420.4	459.1	402.0	345.8	232.5	212.2	255.7	273.1	301.3	204.4
85°	283.8	274.2	314.8	280.0	249.9	155.0	145.3	173.4	184.0	187.0	105.6
87.5°	170.5	170.5	182.1	150.2	134.6	80.4	78.5	98.8	105.6	100.8	58.1
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°	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1	5464.1
2.5°	5478.7	5409.9	5263.6	5146.5	4998.2	4844.2	4757.9	4666.0	4603.0	4557.5	4630.2
5°	5520.4	5379.9	5077.6	4790.9	4474.2	4144.8	3894.9	3662.5	3500.7	3400.0	3494.9
7.5°	5586.2	5370.2	4888.8	4398.6	3830.0	3281.7	2791.6	2484.5	2305.4	2217.2	2272.5
10°	5661.7	5354.6	4666.9	3866.9	3053.2	2362.5	1996.4	1872.4	1831.7	1815.2	1823.0
12.5°	5724.7	5321.7	4394.8	3223.6	2292.7	1865.7	1760.0	1757.1	1765.8	1767.8	1770.7
15°	5769.2	5273.3	3990.8	2553.4	1833.6	1699.9	1694.2	1711.6	1728.1	1734.8	1738.7
17.5°	5799.3	5173.6	3534.6	2018.7	1642.9	1619.5	1633.1	1655.4	1672.8	1677.7	1681.5
20°	5796.3	5027.3	2991.2	1683.5	1539.1	1539.1	1562.5	1579.8	1580.9	1575.0	1577.9
22.5°	5766.4	4826.8	2464.3	1505.3	1447.2	1463.6	1486.9	1470.4	1402.6	1358.1	1360.9
25°	5715.9	4587.5	2012.9	1391.9	1362.0	1391.0	1384.2	1260.2	1163.3	1119.7	1119.7
27.5°	5671.4	4304.7	1666.1	1293.1	1276.6	1312.5	1192.5	1080.0	1039.3	1019.1	1012.2
30°	5639.4	3999.5	1434.6	1198.2	1196.2	1170.2	1034.5	1003.5	996.8	980.3	974.5
32.5°	5647.2	3690.5	1286.4	1114.9	1121.7	1001.6	958.9	965.8	959.9	942.4	934.8
35°	5711.1	3397.0	1189.5	1039.3	1019.1	904.7	914.4	927.0	925.1	900.8	893.1
37.5°	5825.4	3119.1	1125.6	976.4	889.3	856.3	871.8	891.2	886.3	869.8	864.0
40°	5945.6	2857.5	1073.3	927.0	812.7	823.4	836.9	847.6	852.4	857.2	853.3
42.5°	6062.7	2584.4	1009.3	876.7	780.7	792.4	798.2	808.8	834.9	853.3	852.4
45°	6132.5	2327.6	943.5	805.0	755.6	762.3	758.4	779.8	811.7	841.8	842.7
47.5°	6210.0	2128.1	891.2	739.1	731.3	736.2	724.6	745.8	774.9	811.7	815.6
50°	6303.9	2009.0	849.5	686.8	698.4	698.4	695.5	714.8	755.6	798.2	805.9
52.5°	6410.5	1985.8	814.7	649.0	665.4	664.5	667.4	696.4	741.0	782.7	789.4
55°	6540.3	2048.7	776.8	620.9	633.5	637.4	647.0	680.0	717.8	765.3	768.1
57.5°	6691.4	2176.5	746.9	598.6	604.5	617.0	632.5	662.6	703.3	755.6	758.4
58°	6716.6	2203.6	741.9	596.7	598.6	613.2	630.5	659.6	700.3	757.5	760.4
60°	6717.6	2293.8	731.3	588.0	576.3	600.6	619.9	649.0	695.5	764.2	771.0
62.5°	6479.3	2292.7	723.5	575.4	553.1	583.1	605.4	639.3	690.7	780.7	794.3
65°	5705.3	2083.5	686.8	556.0	534.7	567.6	592.8	632.5	704.2	852.4	861.1
67.5°	4462.5	1707.7	618.0	528.9	510.5	552.1	585.0	631.6	718.7	868.9	874.7
70°	2950.5	1277.7	542.5	497.9	485.3	533.8	588.9	664.5	702.3	834.0	818.5
72.5°	1531.5	896.9	481.4	459.1	456.2	517.3	645.1	660.6	685.8	784.6	765.3
75°	803.9	622.9	428.1	416.5	421.4	513.4	761.4	643.2	664.5	750.7	787.5
77.5°	492.0	502.7	382.6	377.8	387.5	501.8	760.4	620.9	633.5	690.7	731.3
80°	329.4	407.9	347.7	348.7	355.5	459.1	682.9	586.0	595.8	652.8	694.5
82.5°	208.3	241.2	315.8	332.3	323.6	378.7	580.2	533.8	547.3	746.9	789.4
85°	105.6	151.1	274.2	319.7	291.5	265.5	470.8	467.9	474.6	538.6	562.8
87.5°	48.4	83.3	214.1	279.0	219.8	165.6	342.0	346.8	373.9	382.6	382.6
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)