

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: P299155

Luminaire Tested: **GAA-AF-01-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-01-LED-U-SL2-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

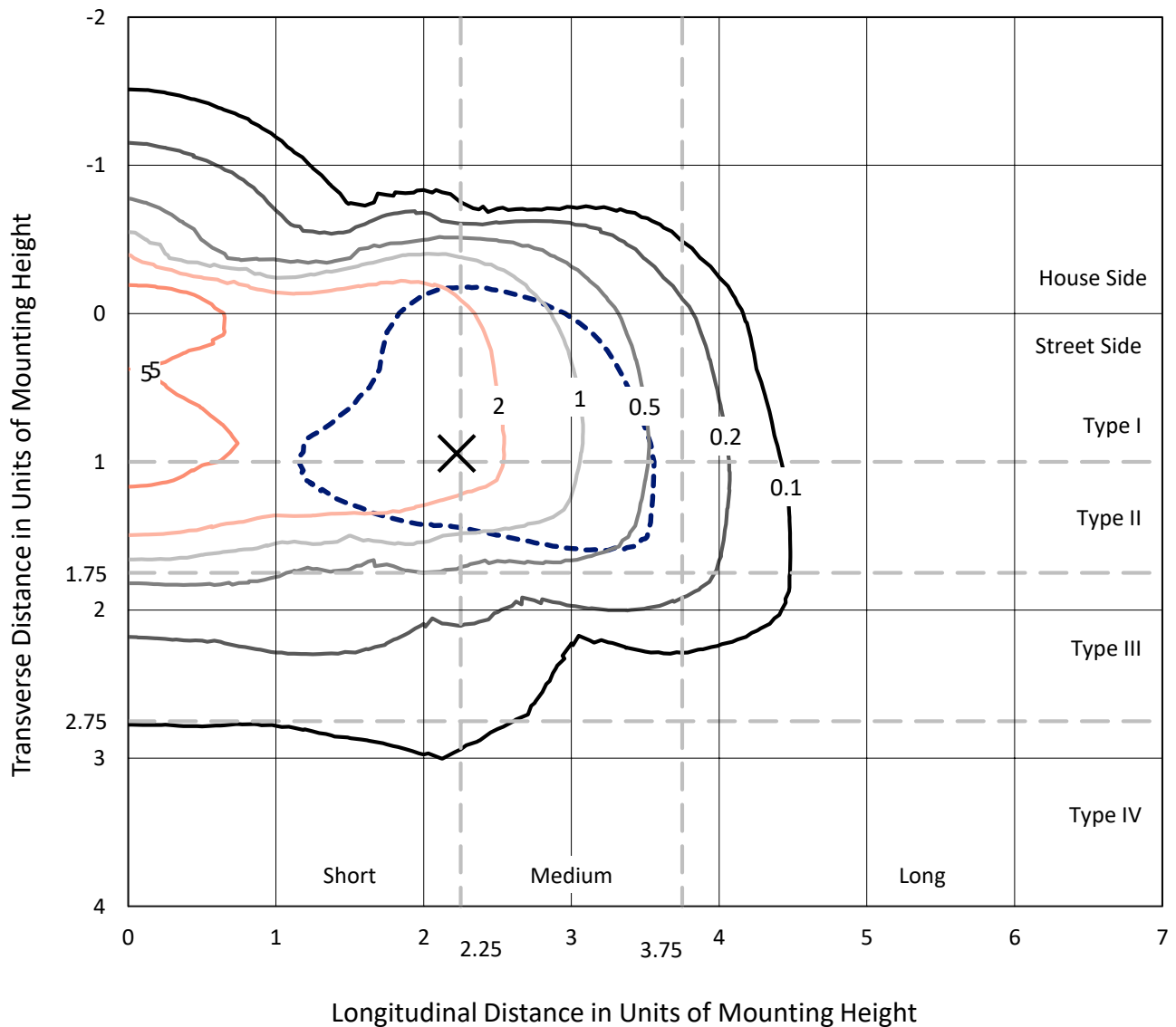
Lumens per Lamp: N/A  
Luminaire Lumens: 4270.7 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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

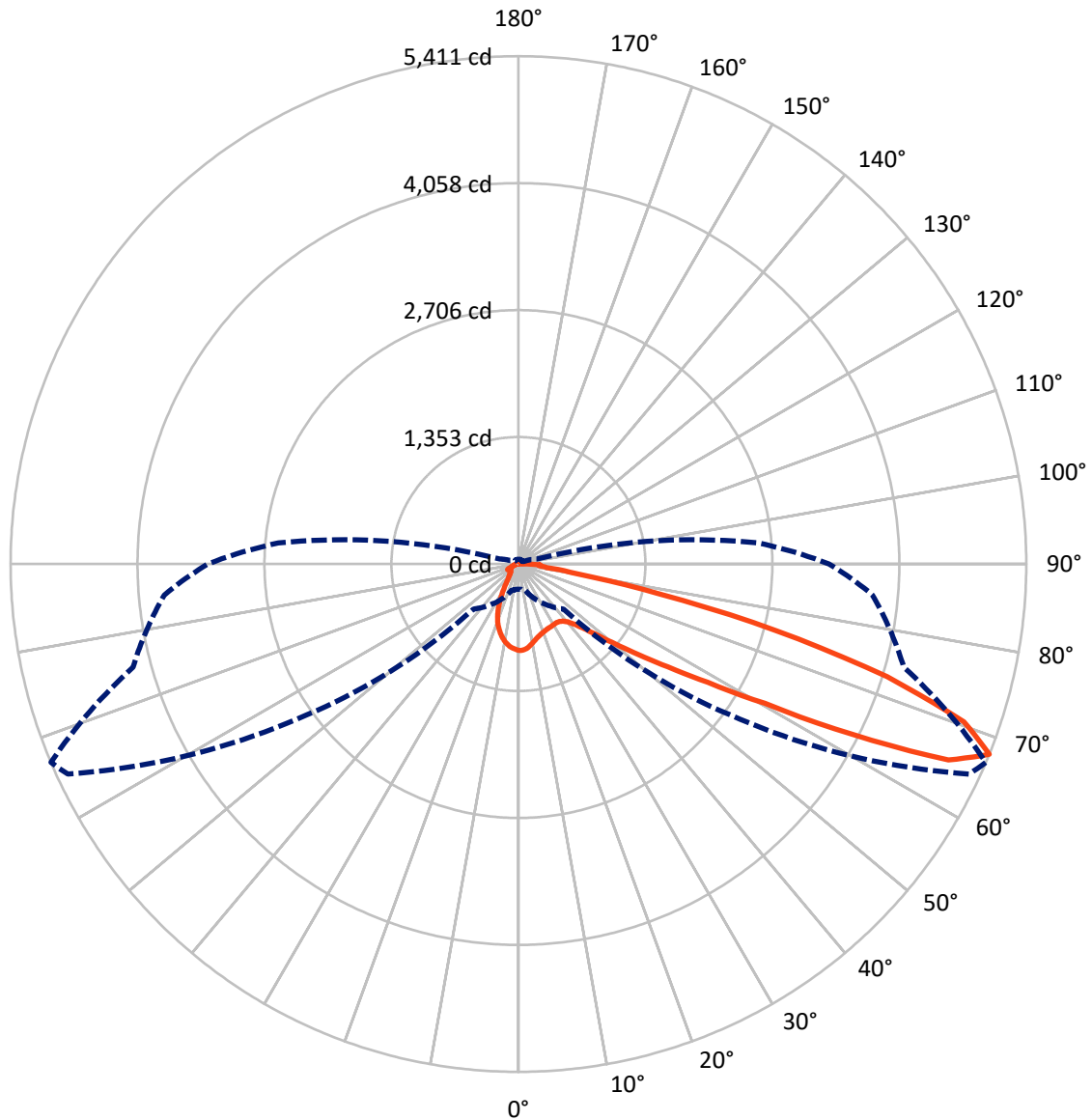
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	707.6	0.0	707.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3563.1	0.0	3563.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4270.7	0.0	4270.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.8
10°-20°	181.8	4.3
20°-30°	246.5	5.8
30°-40°	350.4	8.2
40°-50°	586.3	13.7
50°-60°	927.5	21.7
60°-70°	1181.5	27.7
70°-80°	618.9	14.5
80°-90°	99.3	2.3
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°	4270.7	100.0
0°-180°	4270.7	100.0

**Coefficient of Utilization**



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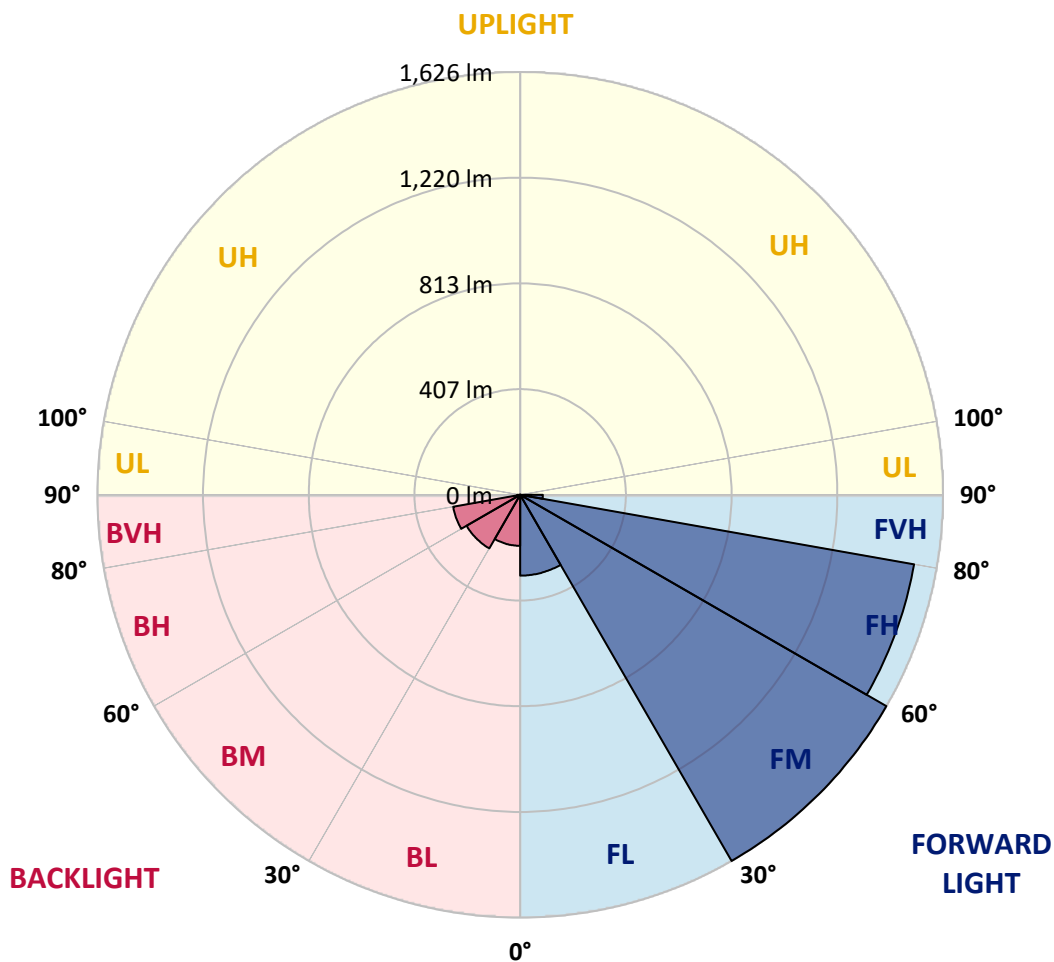
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.8	7.3			
FM	(30°-60°)	1626.4	38.1			
FH	(60°-80°)	1538.6	36.0			G1/1800
FVH	(80°-90°)	87.3	2.0			G1/100
BL	(0°-30°)	196.1	4.6	B1/500		
BM	(30°-60°)	237.8	5.6	B1/1000		
BH	(60°-80°)	261.7	6.1	B1/500		G1/500
BVH	(80°-90°)	12.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
2.5°	883.3	884.7	889.4	892.3	905.6	911.3	915.3	919.3	919.9	921.8	919.9
5°	790.6	793.8	802.4	812.1	837.8	858.0	879.3	901.4	905.4	919.7	923.7
7.5°	718.8	717.9	725.1	736.7	763.0	791.0	828.3	872.3	881.0	913.2	928.8
10°	666.3	665.7	673.3	685.3	710.4	736.9	779.0	839.3	851.5	902.9	933.6
12.5°	627.6	627.8	635.4	648.7	674.1	700.9	743.6	807.2	822.8	890.9	938.7
15°	601.9	603.6	609.7	623.8	648.7	675.4	717.3	783.2	800.7	881.4	944.3
17.5°	593.3	596.0	598.1	608.4	629.7	656.4	697.5	765.5	784.1	874.8	949.4
20°	601.3	604.4	600.4	604.0	617.5	641.1	681.9	751.6	770.6	867.5	950.0
22.5°	635.6	638.5	626.8	616.4	615.6	629.9	669.1	740.7	760.3	862.0	950.2
25°	696.0	697.9	678.1	654.1	630.8	625.9	660.0	733.1	754.0	857.2	946.2
27.5°	770.2	771.6	748.9	713.5	666.6	635.4	656.9	728.7	750.4	852.9	939.5
30°	860.3	867.3	836.7	792.1	723.6	663.4	663.2	726.4	746.4	845.8	926.2
32.5°	952.6	955.5	934.4	889.2	800.5	712.7	680.9	728.1	745.3	837.1	909.4
35°	1046.1	1049.9	1036.2	999.7	905.6	784.9	715.4	738.0	751.9	834.2	897.6
37.5°	1167.2	1172.2	1153.3	1111.1	1033.4	882.8	772.9	762.8	771.9	842.6	894.0
40°	1358.6	1356.3	1300.9	1238.1	1173.3	1008.2	855.0	804.9	810.2	869.8	905.0
42.5°	1581.4	1575.7	1480.3	1381.8	1327.0	1159.8	963.7	878.0	877.0	923.3	943.5
45°	1759.2	1754.5	1668.6	1547.1	1503.3	1332.5	1104.2	986.9	979.1	1008.2	1014.7
47.5°	1855.4	1855.6	1806.1	1706.9	1705.9	1551.9	1284.7	1144.4	1130.9	1144.6	1137.7
50°	1821.7	1826.1	1820.9	1789.3	1890.8	1839.6	1520.3	1364.1	1336.9	1350.4	1323.6
52.5°	1658.7	1664.4	1695.6	1744.0	1968.5	2187.3	1866.6	1637.0	1605.4	1600.6	1570.9
55°	1369.8	1376.7	1440.3	1571.9	1903.9	2420.9	2412.9	1984.9	1934.6	1888.9	1876.3
57.5°	944.1	955.7	1058.1	1253.5	1694.7	2491.4	3063.4	2480.9	2378.6	2218.9	2221.9
60°	532.2	545.7	666.3	843.9	1272.7	2414.8	3558.4	3232.1	3016.0	2605.4	2627.3
62.5°	338.4	353.0	444.6	586.3	763.6	2002.0	3761.2	4276.5	4002.1	3081.8	3103.2
65°	274.0	280.3	323.5	484.0	554.5	1206.1	3607.2	5136.8	5034.5	3686.4	3586.1
67.5°	267.5	269.6	291.9	406.3	531.8	677.9	2877.3	5297.7	5411.2	4251.0	3787.3
70°	264.3	271.7	329.0	387.7	509.2	571.8	1729.1	4856.7	5035.9	4398.7	3519.6
72.5°	128.3	127.8	165.5	350.7	573.7	593.1	888.3	3929.6	4109.5	3810.9	2892.2
75°	103.4	94.6	90.3	128.5	551.6	612.4	566.1	2703.9	2834.1	2555.0	1777.9
77.5°	98.1	87.6	80.2	80.5	233.1	649.5	479.5	1496.5	1534.5	1154.1	487.1
80°	81.3	71.6	66.3	74.8	112.9	618.5	518.5	677.3	621.5	283.5	162.2
82.5°	56.4	51.4	49.9	62.8	90.3	440.8	603.0	363.9	305.2	141.9	100.0
85°	36.0	30.7	34.1	45.7	70.3	203.4	621.1	283.7	225.6	90.1	56.4
87.5°	16.6	13.5	16.8	25.3	45.9	70.1	591.0	318.6	232.3	47.6	35.6
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°	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2	921.2
2.5°	921.6	917.6	914.4	908.5	902.0	895.7	890.0	882.8	880.7	878.8	881.8
5°	924.5	920.5	909.0	890.9	870.8	852.1	833.4	817.4	807.5	802.0	805.1
7.5°	929.0	923.3	899.3	866.0	830.0	797.1	763.2	736.1	716.1	706.6	709.3
10°	933.0	922.0	882.8	832.9	780.3	731.4	677.9	633.7	600.9	583.6	587.8
12.5°	934.7	917.2	859.9	791.7	719.4	647.8	569.0	502.9	455.7	438.5	434.9
15°	936.3	911.7	834.6	744.7	645.9	544.6	434.3	355.1	315.9	307.3	305.4
17.5°	936.8	902.2	806.0	693.7	559.8	421.8	297.0	246.6	246.8	260.7	262.4
20°	932.3	888.1	771.2	630.3	456.6	291.7	203.9	195.2	227.0	261.8	266.0
22.5°	922.2	869.4	731.8	556.4	338.4	192.1	157.7	167.2	208.3	250.8	255.7
25°	909.4	846.6	685.3	470.7	224.1	137.3	132.3	143.8	171.6	200.1	202.8
27.5°	891.9	819.7	633.1	372.6	145.5	113.1	116.5	124.3	135.6	148.3	149.5
30°	869.4	787.4	577.3	271.7	109.9	101.7	106.6	110.8	115.6	122.8	123.4
32.5°	843.5	756.5	520.0	187.6	97.5	95.8	99.6	101.7	105.5	109.9	110.4
35°	821.8	727.0	460.6	132.7	92.2	91.4	93.9	94.8	98.4	103.2	103.6
37.5°	809.3	703.0	399.3	107.0	88.7	87.4	88.9	88.9	93.9	101.1	102.1
40°	810.2	689.7	338.0	96.7	85.7	84.0	84.2	84.2	90.8	98.6	99.2
42.5°	833.1	693.1	283.7	92.7	83.4	81.5	80.5	81.1	86.6	91.6	92.0
45°	887.1	716.9	232.7	90.1	81.1	80.5	78.1	77.9	80.0	82.3	82.3
47.5°	975.5	763.9	198.2	88.5	79.2	79.0	76.2	73.5	73.3	74.1	74.1
50°	1119.4	844.7	175.0	86.6	77.9	76.2	73.1	68.9	67.4	68.0	68.0
52.5°	1335.0	989.0	166.2	84.0	75.2	72.4	68.9	64.7	63.4	63.6	63.6
55°	1617.9	1210.5	164.9	81.1	72.2	67.8	64.9	61.7	60.2	60.7	60.7
57.5°	1963.5	1517.0	187.4	76.4	68.2	63.2	61.5	59.4	58.3	59.0	58.8
60°	2383.6	1918.0	278.0	71.6	64.2	59.0	59.0	57.3	56.4	57.1	56.9
62.5°	2867.6	2378.6	390.9	68.0	60.0	55.6	56.4	55.6	54.8	55.2	55.0
65°	3296.8	2678.7	366.0	65.3	55.8	52.4	53.9	53.5	52.9	53.3	53.1
67.5°	3309.2	2567.5	205.5	62.3	51.8	49.3	51.4	51.2	50.8	51.2	51.0
70°	2953.3	2167.9	115.8	56.9	47.6	45.5	48.4	48.2	47.8	48.6	48.4
72.5°	2366.1	1573.2	84.7	50.1	43.4	41.5	44.9	44.6	44.6	45.9	45.3
75°	1361.5	809.6	67.6	43.0	39.0	37.5	40.4	40.6	41.1	42.8	41.5
77.5°	388.1	252.3	55.2	36.4	33.5	32.9	35.8	36.2	36.4	38.3	36.6
80°	144.3	116.3	45.5	30.5	27.4	27.6	30.3	31.0	31.2	33.1	31.0
82.5°	92.0	76.7	36.9	23.6	21.5	21.3	24.6	25.5	25.5	25.7	24.4
85°	53.7	45.9	27.8	17.1	15.2	14.5	18.3	19.8	19.2	18.7	17.9
87.5°	36.0	31.6	17.1	9.5	8.2	7.8	10.7	11.8	11.4	10.7	10.1
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)