

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: P269801

Luminaire Tested: **GAW-AF-01-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269801
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: GAW-AF-01-LED-U-SL4-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE 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: 5248 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

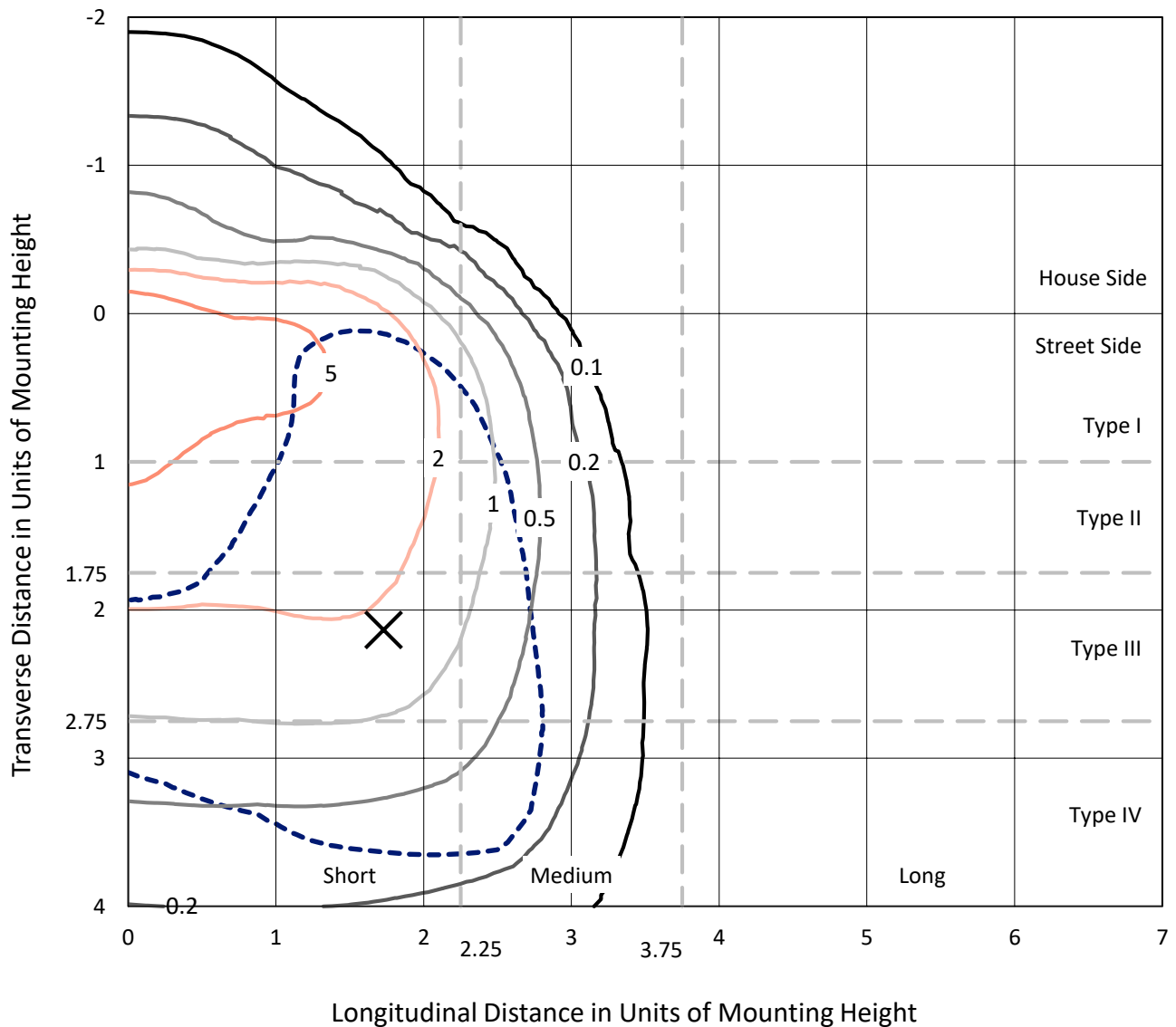
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

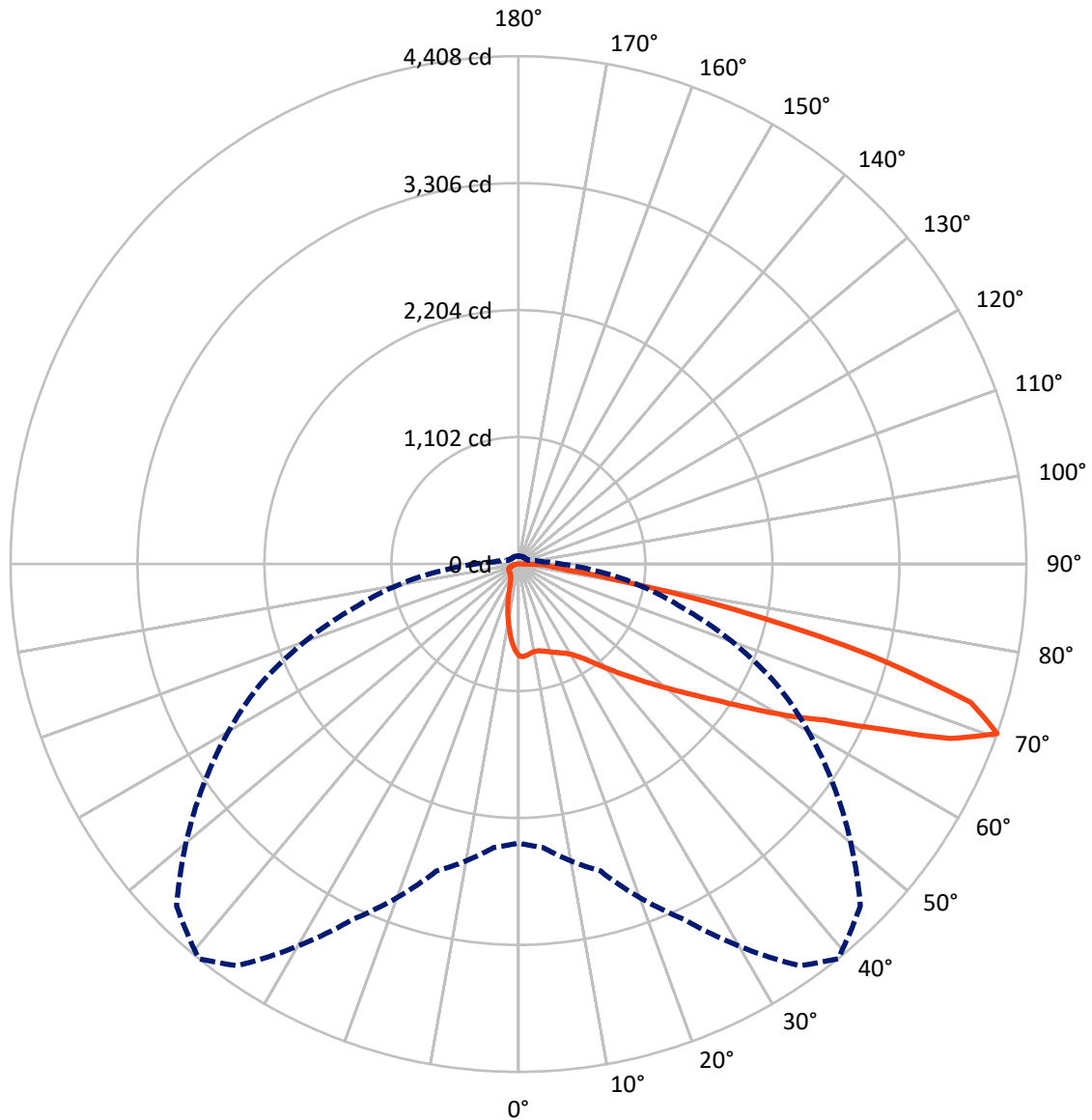
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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	596.9	0.0	596.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4651.1	0.0	4651.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	5248.0	0.0	5248.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.3
10°-20°	170.9	3.3
20°-30°	266.1	5.1
30°-40°	414.6	7.9
40°-50°	696.0	13.3
50°-60°	1105.6	21.1
60°-70°	1474.7	28.1
70°-80°	890.6	17.0
80°-90°	161.2	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°	5248.0	100.0
0°-180°	5248.0	100.0



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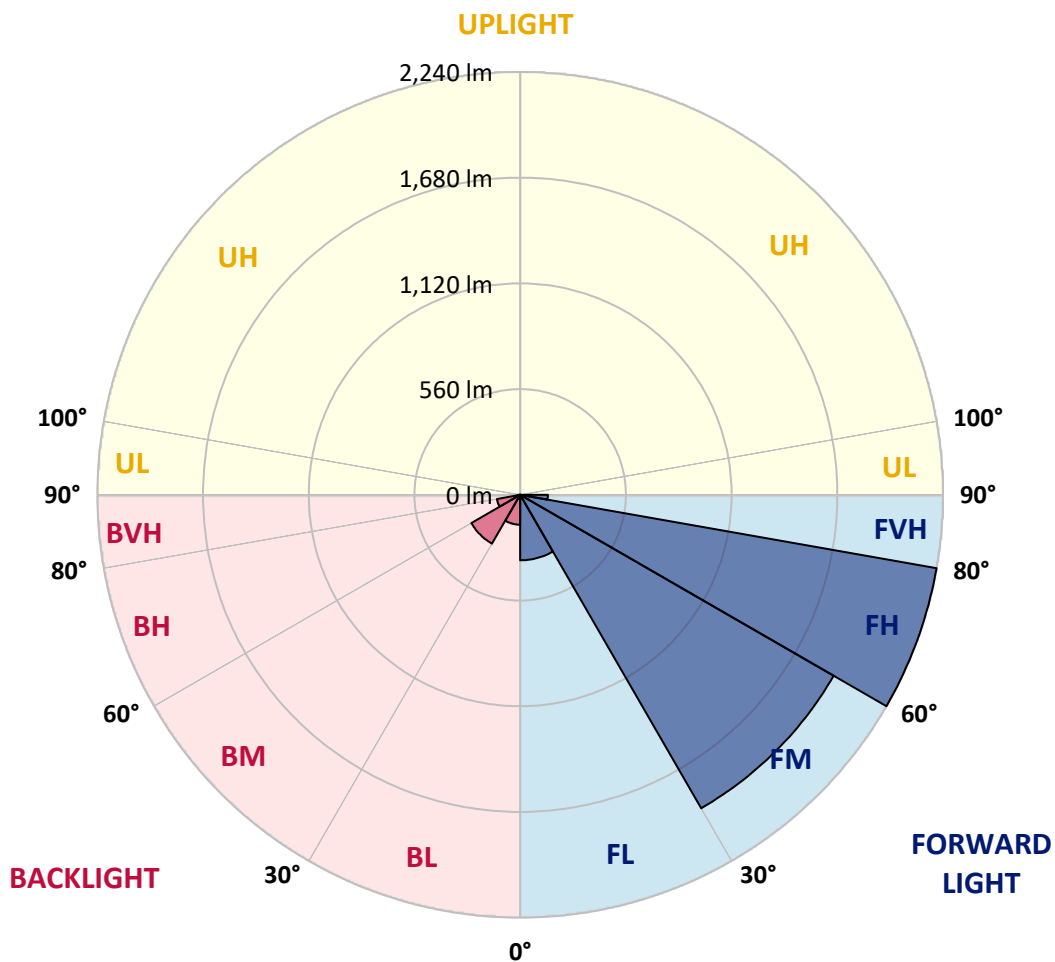
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	6.6			
FM	(30°-60°)	1917.4	36.5			
FH	(60°-80°)	2240.0	42.7			G2/5000
FVH	(80°-90°)	146.7	2.8			G2/225
BL	(0°-30°)	158.3	3.0	B1/500		
BM	(30°-60°)	298.7	5.7	B1/1000		
BH	(60°-80°)	125.3	2.4	B1/500		G1/500
BVH	(80°-90°)	14.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
2.5°	812.2	812.0	809.8	808.1	806.9	806.3	807.3	803.4	799.9	795.7	791.0
5°	806.0	805.8	802.4	799.1	795.9	794.9	794.6	787.4	783.1	776.8	768.2
7.5°	799.4	798.1	793.6	788.3	782.6	779.9	777.3	768.0	763.1	756.7	746.9
10°	792.5	790.9	786.6	781.3	776.0	772.0	767.4	758.3	753.1	748.5	737.0
12.5°	785.3	784.0	782.9	780.4	776.8	773.3	769.8	762.0	756.7	751.2	737.8
15°	784.2	783.6	786.0	787.6	785.5	783.4	779.6	773.0	767.4	761.8	744.4
17.5°	792.8	792.5	798.7	802.8	801.7	798.1	793.1	785.5	780.9	776.1	754.5
20°	811.3	812.7	820.2	825.8	820.5	815.1	806.9	796.4	794.0	791.9	764.9
22.5°	846.7	848.0	853.3	855.5	841.5	833.7	822.4	809.1	807.3	809.1	777.6
25°	901.5	900.2	899.5	891.5	866.1	854.1	839.5	825.5	826.4	833.5	795.1
27.5°	974.4	967.3	956.1	932.0	891.7	878.4	860.4	847.7	852.8	866.7	821.5
30°	1049.8	1041.9	1016.1	976.8	925.3	910.6	890.7	876.2	889.6	911.5	856.8
32.5°	1119.8	1118.7	1080.9	1030.4	971.7	958.9	939.0	922.6	944.3	977.6	909.7
35°	1196.2	1198.6	1153.2	1092.6	1034.5	1021.2	1006.7	994.5	1023.3	1069.2	986.2
37.5°	1277.7	1282.6	1229.1	1160.7	1106.0	1100.3	1091.8	1086.5	1131.1	1194.6	1093.1
40°	1387.0	1382.1	1307.8	1237.5	1193.8	1193.5	1190.9	1197.3	1271.5	1358.3	1230.6
42.5°	1503.9	1489.7	1391.1	1320.0	1290.1	1299.2	1304.5	1330.6	1440.3	1557.4	1398.1
45°	1629.7	1597.9	1477.9	1407.3	1397.0	1416.3	1434.5	1491.2	1639.0	1783.9	1581.7
47.5°	1730.3	1699.7	1567.5	1498.7	1520.9	1549.9	1584.9	1674.8	1861.6	2018.0	1762.8
50°	1809.5	1789.6	1658.0	1605.5	1657.3	1702.1	1759.2	1882.7	2093.2	2245.9	1930.6
52.5°	1886.4	1871.4	1749.3	1714.9	1817.4	1879.3	1956.9	2105.7	2330.7	2470.0	2071.9
55°	1955.8	1945.1	1847.5	1851.1	2005.6	2086.3	2183.9	2359.8	2589.5	2669.9	2191.3
57.5°	2033.9	2020.4	1959.6	2022.3	2247.6	2352.3	2479.3	2645.2	2832.3	2847.4	2282.4
60°	2112.6	2101.0	2083.9	2219.7	2555.0	2665.0	2785.4	2921.9	3078.6	2985.4	2277.1
62.5°	2180.9	2182.3	2212.4	2427.0	2856.0	2983.4	3130.1	3265.1	3301.5	3009.4	2108.7
65°	2296.7	2317.8	2407.7	2720.4	3279.7	3450.0	3630.1	3608.5	3363.1	2785.0	1747.7
67.5°	2434.4	2471.5	2653.9	3111.6	3815.2	4041.3	4111.0	3686.1	3116.2	2264.0	1245.8
70°	2420.7	2471.5	2760.0	3403.3	4256.6	4408.2	4196.8	3336.0	2474.6	1479.0	661.7
72.5°	2149.6	2222.3	2543.6	3269.7	4117.7	4104.3	3643.4	2487.0	1470.2	593.9	258.5
75°	1638.2	1711.9	1988.4	2583.0	3254.4	3142.4	2585.2	1373.9	557.8	235.9	163.0
77.5°	942.4	999.5	1213.0	1584.2	2064.7	1949.6	1438.9	610.9	271.6	164.4	127.3
80°	526.1	557.8	687.7	803.7	1011.9	927.5	643.8	379.7	202.7	119.3	98.2
82.5°	415.9	444.2	556.1	507.0	462.2	426.3	369.8	338.0	162.0	75.3	58.7
85°	363.5	390.4	470.7	399.1	315.7	289.6	300.5	332.7	125.9	45.4	50.1
87.5°	336.8	372.7	419.5	307.6	245.7	217.7	277.2	364.7	40.6	28.2	20.3
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°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
2.5°	787.2	782.9	776.0	769.8	760.1	755.0	749.5	745.6	742.3	739.7	743.8
5°	762.8	754.8	740.2	724.5	705.8	691.1	678.8	667.4	659.4	654.0	657.6
7.5°	739.9	726.8	703.9	675.3	643.2	616.1	593.7	573.9	560.4	551.5	555.1
10°	726.8	710.5	675.0	630.3	583.0	540.6	505.3	474.9	453.9	441.8	443.8
12.5°	723.7	702.6	653.4	591.9	527.2	468.2	418.6	376.5	346.8	331.4	332.0
15°	726.0	699.2	633.1	555.1	473.3	398.8	337.0	285.8	251.3	233.6	233.5
17.5°	730.1	696.4	611.8	515.3	418.6	332.3	263.1	212.9	182.4	168.3	167.4
20°	734.3	692.1	587.9	472.2	361.7	270.3	206.0	166.7	147.5	139.9	139.2
22.5°	740.5	688.5	563.0	427.0	306.1	220.2	169.4	143.0	132.9	128.8	128.4
25°	750.4	686.6	536.6	379.7	255.8	184.2	147.5	131.3	125.5	122.8	122.4
27.5°	766.9	689.2	511.8	333.8	215.1	159.8	135.3	125.5	121.1	118.8	118.4
30°	788.3	697.4	485.7	290.3	183.3	143.3	127.7	121.5	117.9	115.5	115.5
32.5°	823.7	711.4	458.1	252.7	160.6	131.8	122.2	117.9	115.1	113.1	112.8
35°	875.9	737.5	432.5	221.4	144.4	123.5	117.4	114.3	112.1	111.0	111.0
37.5°	952.1	778.8	409.8	199.1	134.4	117.9	112.8	110.4	109.1	109.1	109.1
40°	1054.3	836.0	391.4	184.2	128.8	113.9	109.5	107.5	106.7	107.0	107.0
42.5°	1180.5	910.2	379.2	173.7	126.2	111.5	107.0	105.5	104.7	104.4	104.7
45°	1324.2	994.5	377.7	165.9	123.5	110.0	105.5	103.8	102.1	101.1	101.1
47.5°	1464.1	1080.1	388.7	163.3	120.6	108.1	104.1	102.4	100.0	97.6	97.6
50°	1587.6	1153.0	403.3	164.4	119.6	105.5	101.9	101.1	97.3	94.7	94.4
52.5°	1685.8	1208.9	415.5	167.5	120.6	103.6	99.3	99.5	95.5	92.5	92.3
55°	1764.5	1245.8	412.2	170.8	123.0	102.4	96.8	97.3	94.2	91.3	91.3
57.5°	1798.9	1232.1	376.7	168.2	124.9	102.8	95.0	97.1	94.4	91.7	91.7
60°	1724.9	1111.4	310.4	156.3	122.4	101.9	94.2	98.2	97.9	95.3	95.0
62.5°	1501.3	894.9	240.7	139.0	114.3	97.9	92.0	97.9	100.9	100.0	99.8
65°	1157.1	637.4	183.9	120.4	102.9	91.3	86.4	91.7	95.8	96.8	96.6
67.5°	751.2	390.7	141.8	102.8	90.5	83.5	79.2	81.7	82.5	82.5	81.9
70°	369.3	210.3	112.8	86.4	77.7	75.3	72.9	71.5	70.2	69.1	69.1
72.5°	182.3	137.4	92.9	73.1	67.0	65.8	65.3	63.8	62.7	61.4	60.8
75°	134.7	111.7	79.1	61.7	57.6	56.6	57.6	56.4	56.1	54.9	54.4
77.5°	110.8	95.3	68.0	52.8	49.3	47.5	49.0	49.3	49.6	48.0	47.5
80°	89.9	80.6	56.9	43.7	40.6	39.3	40.3	42.4	42.9	40.6	39.4
82.5°	64.9	65.8	46.0	34.1	31.5	30.5	32.6	35.3	35.8	32.2	31.5
85°	54.4	54.9	35.3	24.3	21.6	20.0	23.4	26.1	27.9	24.6	23.7
87.5°	22.6	32.2	20.3	13.7	11.9	10.4	12.5	13.8	16.8	15.5	15.2
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)