

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: P322545

Luminaire Tested: **GAN-SA1A-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3465 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

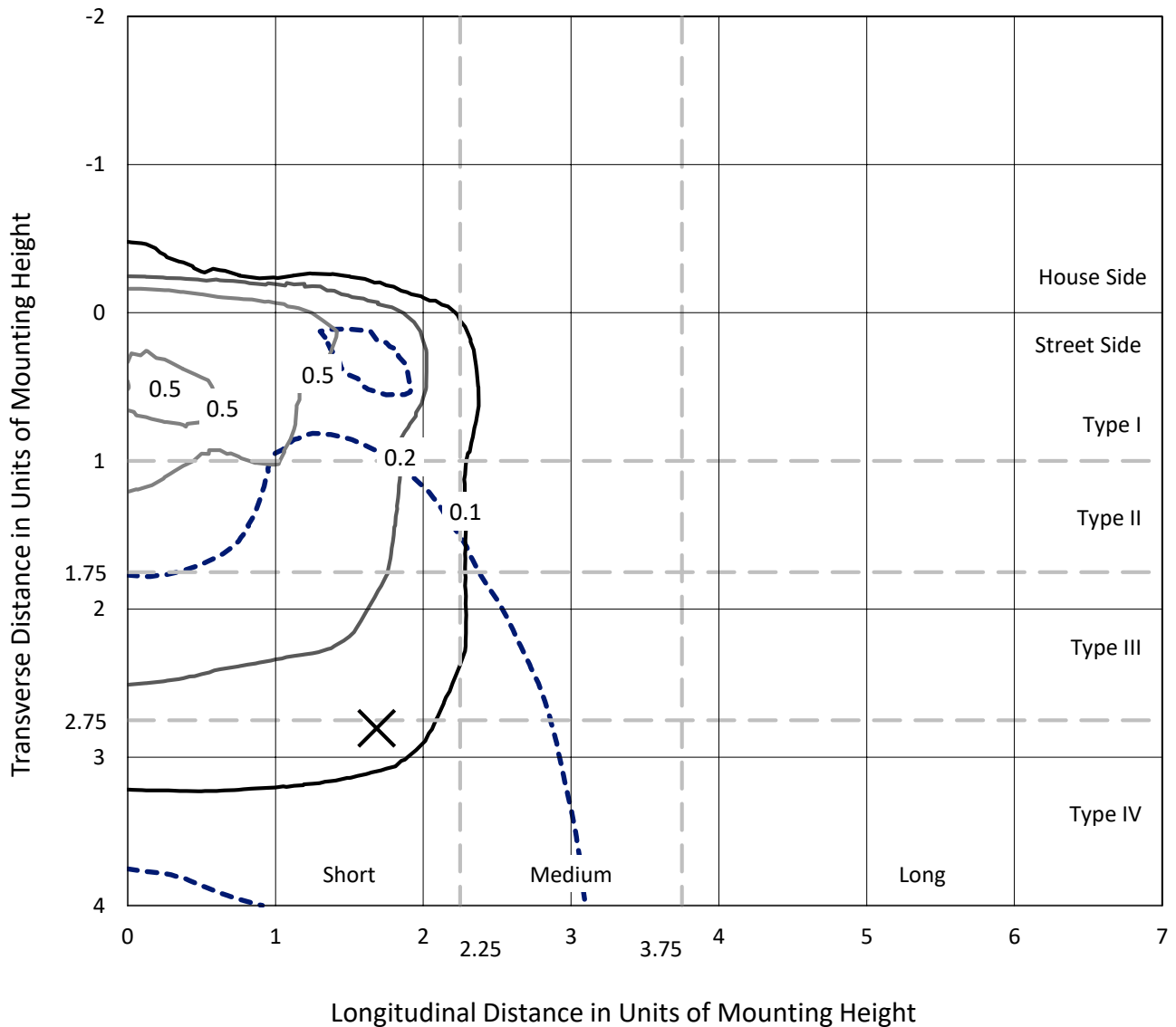
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

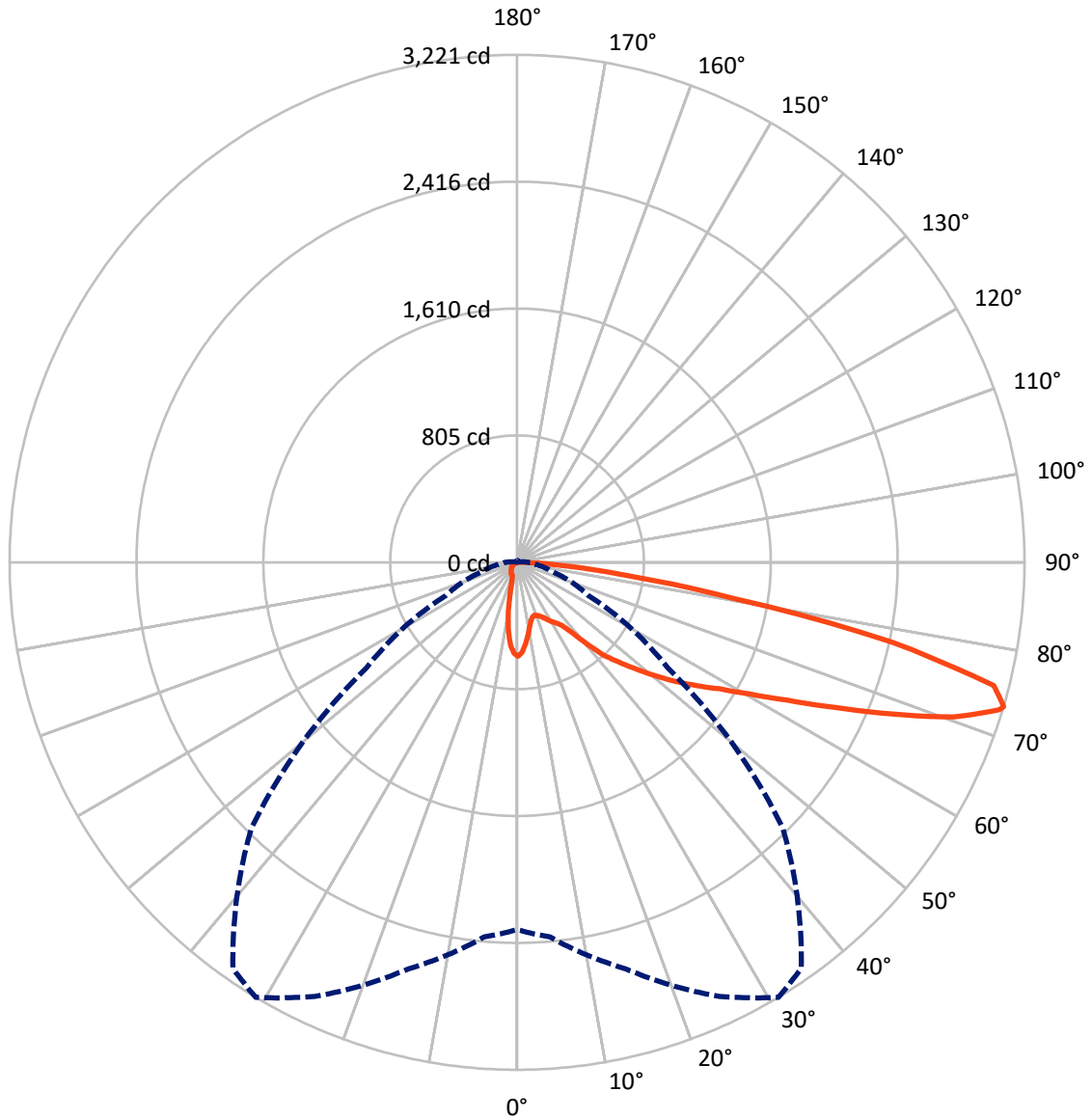
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.9	0.0	315.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3149.2	0.0	3149.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	3465.0	0.0	3465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.4
10°-20°	107.3	3.1
20°-30°	160.8	4.6
30°-40°	255.8	7.4
40°-50°	456.9	13.2
50°-60°	708.9	20.5
60°-70°	942.4	27.2
70°-80°	708.9	20.5
80°-90°	74.5	2.1
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°	3465.0	100.0
0°-180°	3465.0	100.0

Coefficient of Utilization



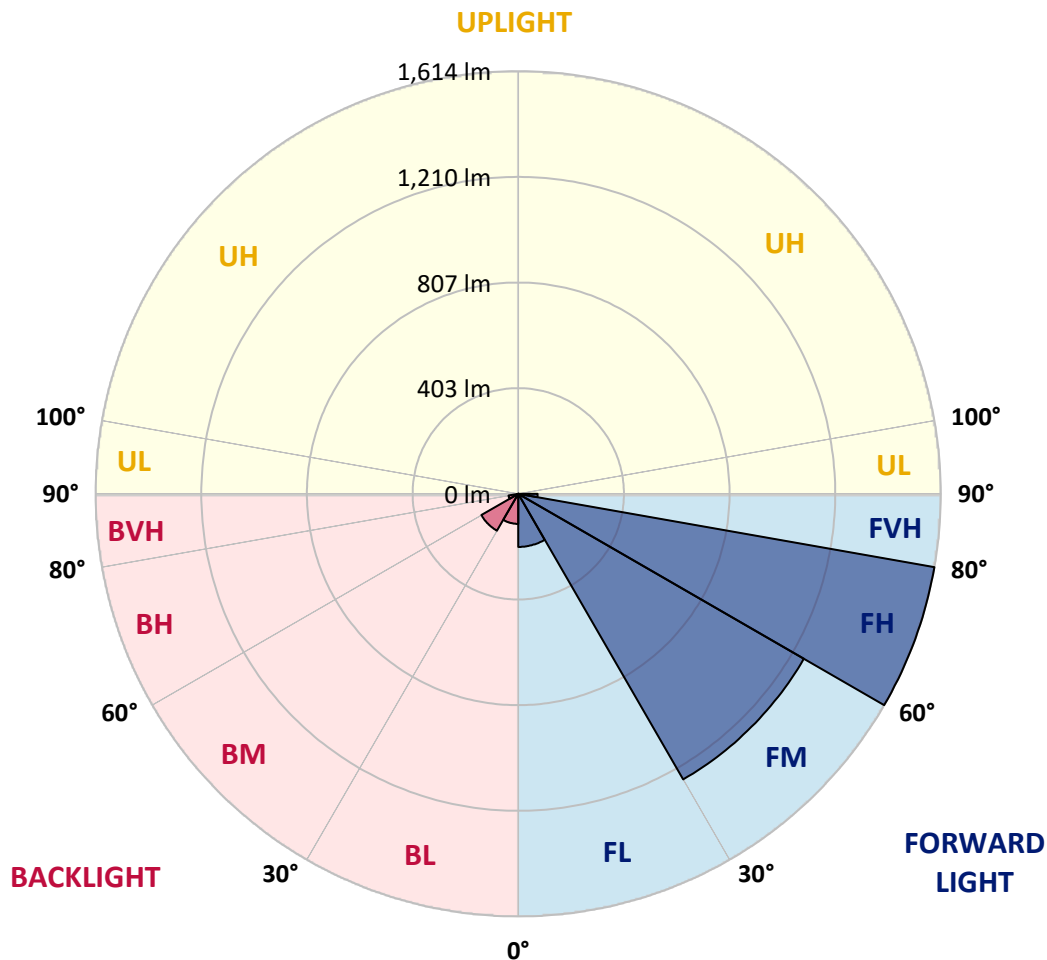
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.7	5.9			
FM (30°-60°)	1259.1	36.3			
FH (60°-80°)	1613.5	46.6			G1/1800
FVH (80°-90°)	73.9	2.1			G1/100
BL (0°-30°)	114.9	3.3	B1/500		
BM (30°-60°)	162.6	4.7	B0/220		
BH (60°-80°)	37.8	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	565.0	567.3	569.9	570.4	574.6	574.8	580.9	585.5	590.1	594.5	596.0
5°	507.0	510.9	515.5	520.0	529.0	532.6	547.5	562.8	577.3	591.2	598.0
7.5°	445.1	449.5	455.9	467.3	477.3	484.3	507.8	535.0	562.1	587.7	602.4
10°	388.6	392.7	399.5	411.5	426.9	436.4	468.1	505.8	545.6	584.5	609.0
12.5°	352.7	354.9	358.6	371.5	385.4	396.1	433.4	480.0	532.1	584.3	619.7
15°	346.1	346.7	343.7	349.5	360.3	370.7	408.5	459.2	521.7	587.0	633.6
17.5°	356.6	356.2	346.1	345.4	354.0	362.5	396.3	444.7	514.4	593.3	651.6
20°	372.5	371.3	353.7	350.5	359.6	367.6	395.4	439.3	511.7	603.8	673.5
22.5°	393.7	391.7	364.0	360.6	370.5	378.8	405.9	444.6	514.1	617.9	698.9
25°	420.0	416.9	381.8	378.1	388.1	396.4	424.7	459.7	521.2	635.0	731.1
27.5°	449.7	445.3	410.3	400.7	412.0	420.7	449.8	482.7	532.4	653.1	770.6
30°	477.6	471.9	440.3	424.4	438.3	448.0	477.0	510.2	550.4	681.1	824.7
32.5°	505.8	499.3	467.1	448.1	460.7	471.2	504.9	548.0	584.1	723.8	896.6
35°	570.6	563.8	524.3	492.9	492.7	498.7	544.1	599.7	628.7	783.4	982.4
37.5°	679.6	675.7	638.0	578.5	562.6	556.0	597.5	661.4	692.8	865.2	1079.2
40°	798.9	795.6	753.3	699.4	675.2	658.9	674.2	747.4	783.4	965.3	1178.1
42.5°	933.7	917.6	842.4	826.2	804.5	792.2	778.4	853.4	894.6	1074.1	1276.1
45°	1056.2	1029.0	931.4	907.0	902.0	905.1	912.7	995.8	1019.7	1203.5	1373.7
47.5°	1129.1	1107.7	1032.8	1009.4	1008.0	1028.2	1085.8	1156.7	1144.3	1316.3	1459.7
50°	1198.4	1179.1	1116.9	1122.6	1128.9	1156.4	1282.4	1322.2	1258.1	1418.5	1538.6
52.5°	1254.5	1225.0	1192.5	1224.9	1255.7	1300.0	1485.1	1470.7	1338.8	1499.9	1606.0
55°	1286.9	1273.5	1289.3	1321.9	1379.9	1451.7	1676.6	1594.3	1397.8	1574.2	1651.0
57.5°	1405.6	1379.3	1410.7	1438.9	1514.5	1615.0	1840.5	1686.4	1440.4	1620.1	1661.3
60°	1549.2	1528.0	1546.5	1593.3	1695.4	1813.6	1993.8	1761.5	1462.6	1649.6	1634.5
62.5°	1777.8	1749.8	1738.3	1790.7	1926.0	2055.0	2110.1	1813.6	1457.7	1636.6	1542.6
65°	2084.0	2055.0	2003.5	2051.0	2223.1	2314.1	2240.2	1824.6	1423.8	1530.9	1310.3
67.5°	2397.7	2376.7	2332.6	2412.6	2567.9	2597.3	2377.7	1797.8	1314.6	1241.3	925.8
70°	2604.9	2595.9	2624.6	2801.6	2940.1	2931.6	2503.8	1653.9	1024.6	763.3	458.0
72.5°	2455.5	2498.6	2710.2	3031.2	3200.4	3131.2	2439.1	1270.0	585.6	293.7	132.4
73°	2331.7	2386.8	2671.7	3039.8	3220.9	3145.1	2384.6	1165.7	499.2	231.8	100.4
75°	1622.1	1689.8	2211.9	2831.1	3124.9	2996.6	1987.7	713.5	231.3	102.8	40.5
77.5°	787.6	837.6	1217.9	2045.5	2430.3	2341.2	1237.4	265.9	104.4	64.3	18.7
80°	294.0	326.9	528.7	1041.1	1404.4	1441.2	544.3	100.5	69.5	51.7	9.5
82.5°	77.0	85.8	195.0	464.2	719.8	753.3	171.6	50.7	50.9	42.6	5.8
85°	24.6	28.1	60.9	208.4	339.1	297.7	44.8	24.6	37.0	31.7	3.2
87.5°	3.1	3.9	19.3	49.0	74.8	41.5	7.0	7.3	15.8	17.6	1.9
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°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	597.5	596.7	596.8	592.4	589.5	583.8	577.8	575.1	572.3	571.1	572.3
5°	600.6	599.0	594.6	581.1	566.7	548.0	530.5	517.3	500.7	496.1	500.9
7.5°	605.3	602.3	589.4	561.7	529.7	494.1	454.1	424.9	401.0	385.6	391.2
10°	612.3	606.5	580.6	533.6	476.3	413.2	356.4	312.2	280.8	267.9	267.4
12.5°	624.0	613.1	569.7	497.0	411.0	326.9	252.5	204.5	179.1	162.6	162.3
15°	636.9	620.9	556.0	453.1	335.0	234.2	162.6	126.1	109.7	104.4	103.8
17.5°	652.6	629.9	538.2	399.0	255.5	155.1	106.1	95.6	95.0	94.4	94.4
20°	672.5	640.6	515.3	337.1	181.3	103.6	90.2	90.9	91.2	90.5	90.7
22.5°	695.5	651.4	488.0	270.6	122.6	86.6	86.3	87.2	87.5	87.2	87.3
25°	722.3	664.0	454.8	200.9	88.5	82.2	83.1	84.3	85.1	85.1	85.1
27.5°	755.5	679.2	414.7	140.2	76.5	77.7	80.0	82.2	83.4	83.8	83.8
30°	798.8	698.2	366.8	96.1	69.5	71.6	76.0	80.2	82.4	82.7	82.9
32.5°	853.4	719.6	311.1	71.0	63.6	65.1	69.9	77.0	81.2	81.9	81.9
35°	915.9	744.4	251.3	61.9	59.3	59.9	63.6	71.7	79.2	81.0	81.2
37.5°	984.4	768.8	191.1	57.8	55.8	55.8	58.5	65.4	74.3	80.0	80.7
40°	1048.4	783.5	133.9	54.6	52.6	52.6	54.9	60.0	68.3	77.0	78.8
42.5°	1107.4	788.6	93.3	51.5	49.5	50.0	52.1	56.1	62.4	71.0	72.7
45°	1168.1	787.8	68.0	48.0	46.5	48.0	49.5	52.6	57.1	62.1	62.4
47.5°	1213.9	780.6	53.9	44.6	43.6	45.6	47.0	49.0	51.5	51.2	51.2
50°	1256.8	763.3	43.4	40.0	40.7	43.1	43.7	44.4	44.6	41.4	41.0
52.5°	1289.3	736.4	34.8	35.1	37.8	40.2	39.5	38.5	36.8	32.9	32.2
55°	1300.2	684.5	27.3	29.0	33.6	36.6	34.1	31.9	28.7	25.4	24.8
57.5°	1280.5	617.5	22.2	22.6	28.3	30.9	28.0	25.4	21.9	19.2	18.7
60°	1238.8	543.1	18.3	17.0	21.9	24.1	22.2	19.7	16.4	14.4	14.2
62.5°	1156.0	463.7	15.1	13.2	16.6	18.5	17.3	15.4	12.7	11.4	11.2
65°	982.1	371.0	12.2	10.7	12.9	14.4	13.4	12.0	10.0	9.0	8.8
67.5°	685.5	250.8	10.0	8.8	10.2	11.4	10.5	9.8	8.0	7.8	8.0
70°	330.6	120.9	8.3	7.1	8.0	8.8	8.5	8.0	7.6	8.8	10.2
72.5°	94.8	40.5	6.6	5.9	6.4	7.0	7.3	7.1	8.3	10.7	12.4
73°	72.9	32.7	6.3	5.6	6.1	6.8	7.1	7.0	8.5	10.9	12.4
75°	31.2	15.8	4.7	4.6	5.1	5.9	6.3	6.3	8.5	11.0	11.9
77.5°	14.1	8.5	3.1	3.6	4.4	4.7	5.3	5.3	6.8	8.5	8.5
80°	8.0	4.6	2.4	2.7	3.2	3.2	3.2	2.9	3.1	3.4	3.7
82.5°	5.1	3.1	1.9	2.2	2.0	1.7	1.4	1.4	1.2	1.4	1.7
85°	2.9	1.7	1.7	1.4	0.8	0.7	0.8	0.7	0.2	0.0	0.2
87.5°	1.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)