

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: P382726

Luminaire Tested: **GAN-SA1A-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3233.4 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

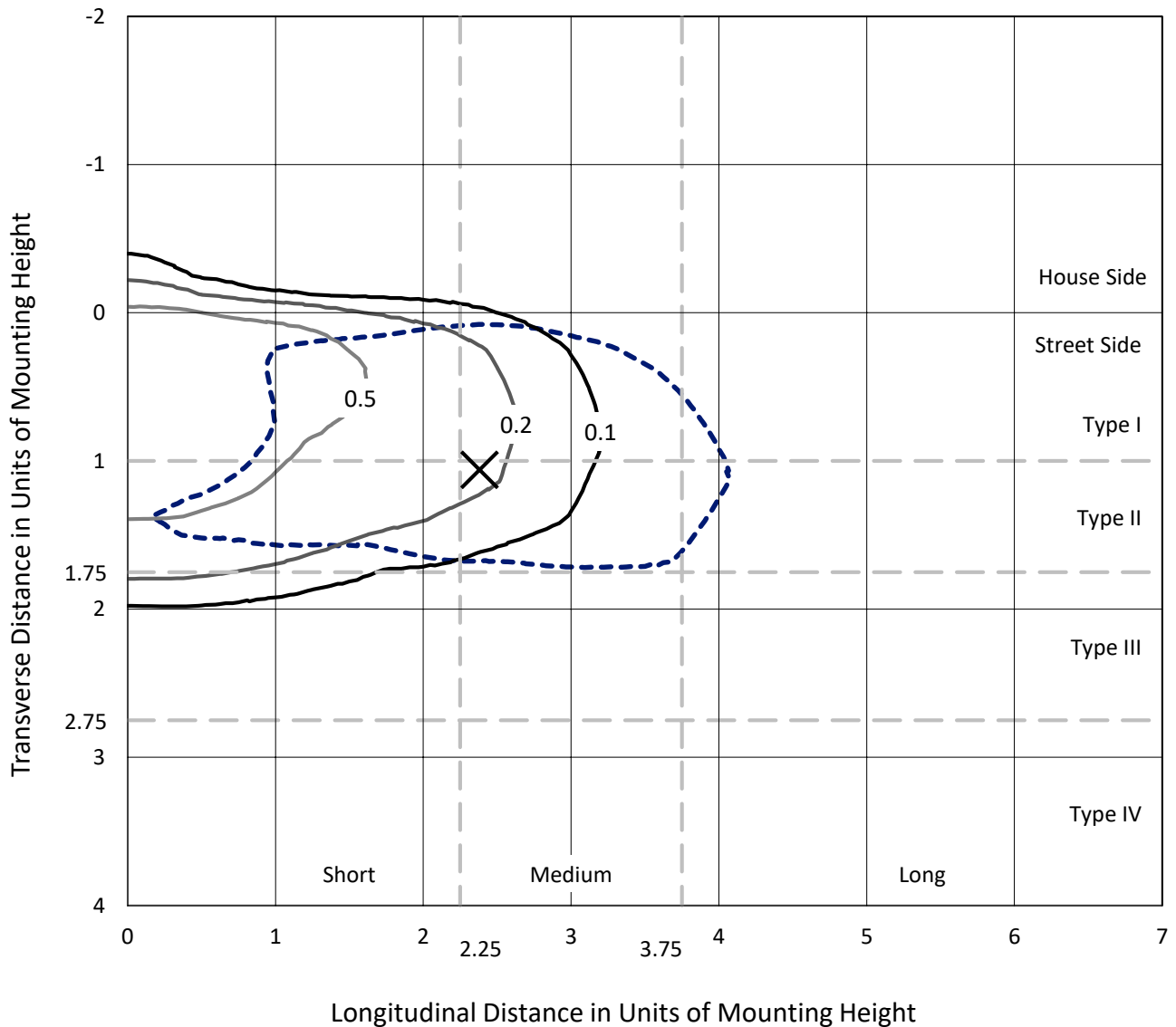
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

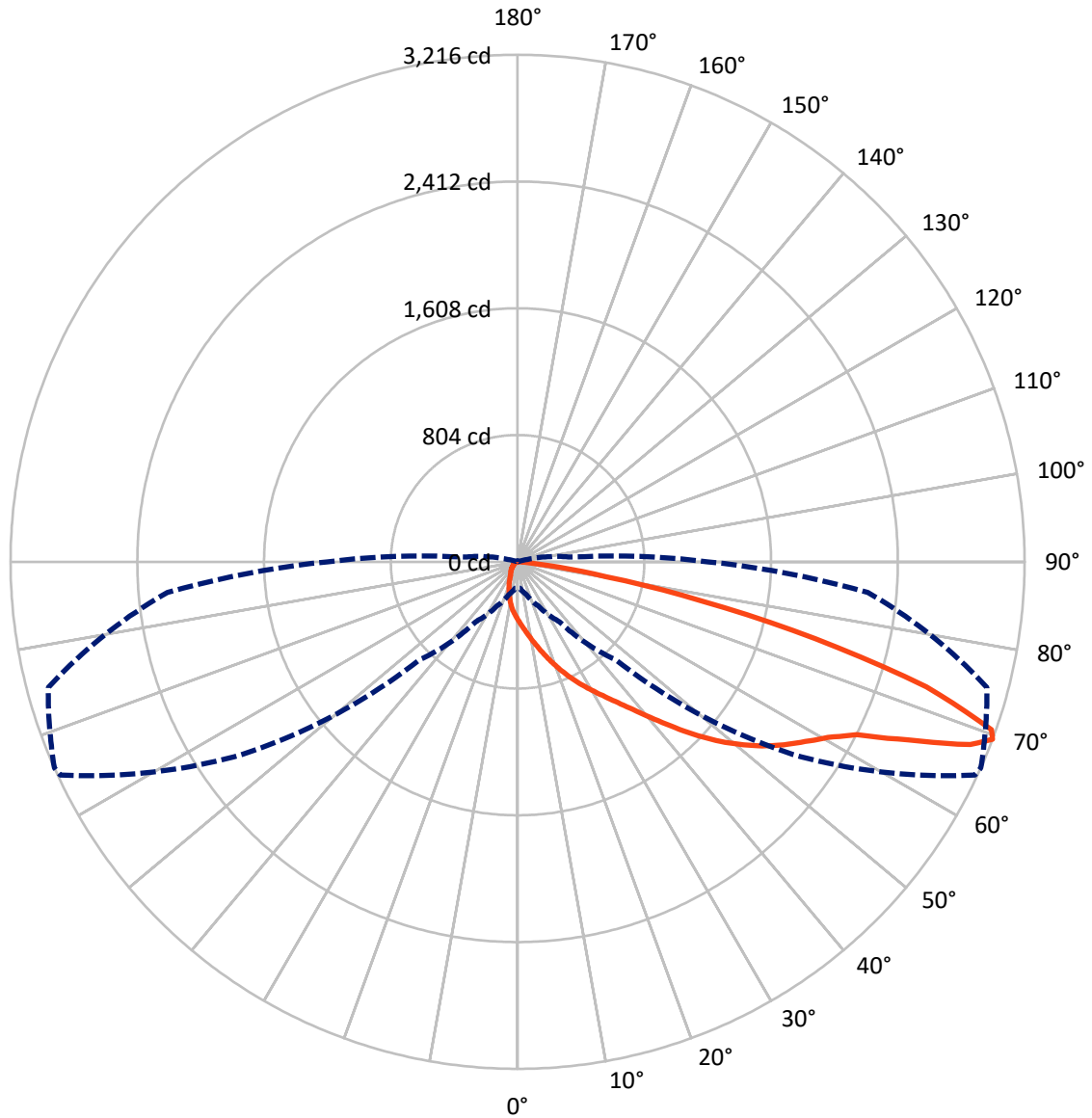
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	194.0	0.0	194.0
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	3039.4	0.0	3039.4
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	3233.4	0.0	3233.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.6	1.1
10°-20°	105.9	3.3
20°-30°	184.3	5.7
30°-40°	323.4	10.0
40°-50°	541.4	16.7
50°-60°	795.8	24.6
60°-70°	817.0	25.3
70°-80°	403.4	12.5
80°-90°	26.7	0.8
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°	3233.4	100.0
0°-180°	3233.4	100.0

**Coefficient of Utilization**

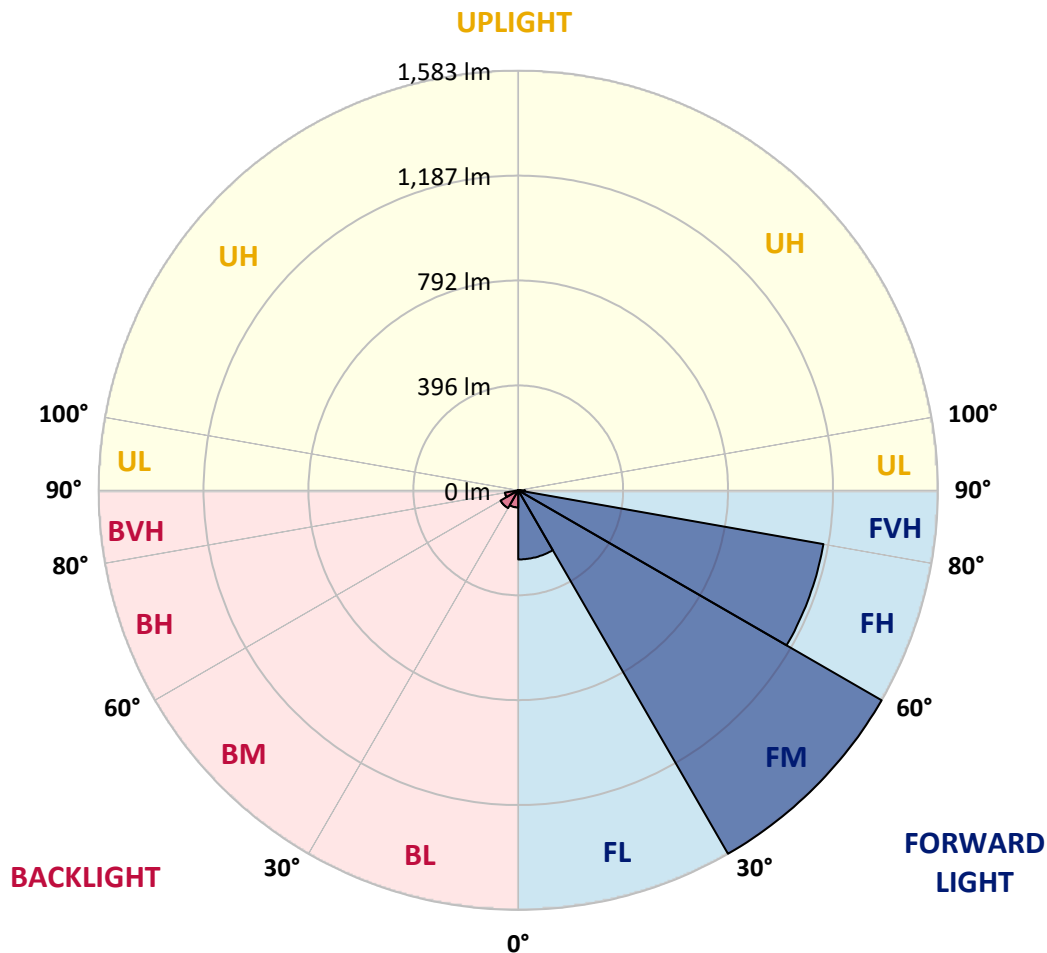


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.9	8.1			
FM (30°-60°)	1583.2	49.0			
FH (60°-80°)	1169.3	36.2			G1/1800
FVH (80°-90°)	26.0	0.8			G1/100
BL (0°-30°)	64.9	2.0	B0/110		
BM (30°-60°)	77.3	2.4	B0/220		
BH (60°-80°)	51.1	1.6	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: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0
2.5°	433.1	431.2	430.5	427.1	421.2	416.8	408.2	398.2	396.4	386.7	374.9
5°	489.3	487.8	486.6	481.9	475.9	464.7	449.1	430.5	426.9	408.5	384.8
7.5°	528.5	531.3	531.3	528.2	520.6	512.2	493.0	467.6	463.2	434.9	398.2
10°	551.4	554.7	557.3	560.0	558.8	555.5	537.4	508.8	503.4	466.0	413.7
12.5°	553.5	556.9	564.2	575.1	585.8	593.4	582.0	554.5	548.3	501.9	432.1
15°	541.5	545.0	556.4	577.6	603.3	625.7	629.4	604.9	598.6	544.8	455.2
17.5°	520.6	523.0	539.2	568.5	608.8	649.9	672.2	659.2	653.3	593.8	480.9
20°	505.1	506.8	521.1	552.6	605.4	665.1	712.7	716.7	710.6	646.2	508.6
22.5°	531.7	534.8	535.2	550.1	596.2	672.7	748.4	773.4	768.8	702.0	536.0
25°	604.3	607.8	596.2	587.0	604.0	676.0	779.0	831.5	827.8	762.0	563.5
27.5°	700.3	704.0	689.0	661.5	645.0	688.8	806.2	890.5	890.3	825.6	593.1
30°	794.6	798.3	783.0	755.5	717.7	724.9	829.6	952.1	953.1	891.2	624.6
32.5°	893.5	898.1	882.3	847.0	807.5	787.3	862.6	1014.3	1019.5	967.2	660.1
35°	1006.0	1006.5	984.3	947.3	901.8	870.6	915.6	1083.8	1096.2	1061.4	705.1
37.5°	1116.2	1120.7	1102.4	1044.0	1002.3	966.9	994.4	1170.7	1188.4	1176.4	763.9
40°	1197.9	1207.3	1204.7	1141.7	1102.1	1076.9	1092.2	1274.1	1296.5	1310.3	838.1
42.5°	1249.2	1256.3	1268.2	1230.3	1194.3	1198.5	1207.8	1394.5	1422.1	1463.0	923.3
45°	1308.0	1311.4	1321.4	1304.6	1280.4	1322.1	1330.2	1530.1	1559.1	1627.1	1017.9
47.5°	1379.9	1387.9	1390.6	1375.2	1364.3	1431.5	1448.4	1653.4	1694.1	1803.0	1118.0
50°	1471.4	1473.6	1478.4	1468.4	1457.3	1525.5	1554.4	1782.9	1819.9	1979.4	1216.8
52.5°	1561.0	1568.6	1585.2	1579.0	1574.5	1605.5	1648.8	1899.6	1940.9	2126.6	1315.3
55°	1586.8	1593.4	1650.6	1689.8	1726.1	1704.1	1739.1	2004.2	2048.8	2258.1	1410.3
57.5°	1483.7	1497.1	1596.3	1698.3	1848.7	1857.3	1863.2	2111.5	2151.6	2358.8	1509.0
60°	1223.2	1225.8	1388.7	1563.6	1828.3	1991.1	2044.5	2226.9	2260.5	2452.7	1627.3
62.5°	778.0	804.6	983.2	1230.1	1613.9	1971.8	2263.6	2401.3	2413.6	2565.2	1796.9
65°	370.6	387.8	516.4	760.0	1169.0	1724.0	2414.9	2717.0	2722.4	2788.3	2023.4
67.5°	205.2	213.5	274.7	409.1	683.4	1219.2	2353.7	3090.8	3096.0	3016.3	2222.1
69°	160.5	167.6	215.7	308.3	463.4	876.3	2130.0	3200.2	3215.8	3081.6	2229.2
70°	136.2	143.2	185.8	260.5	372.6	677.1	1895.9	3173.0	3189.5	3075.4	2176.5
72.5°	83.4	87.4	123.8	183.3	249.7	340.7	1169.2	2683.4	2711.3	2821.1	1870.5
75°	56.2	58.3	77.4	126.5	178.6	175.4	607.4	1891.4	1951.7	2194.4	1381.6
77.5°	40.2	42.2	51.9	81.9	125.2	115.8	275.1	1175.5	1188.4	1316.2	753.4
80°	22.9	24.7	36.7	48.7	85.0	77.2	109.4	561.4	568.0	564.4	251.5
82.5°	12.0	13.5	20.1	32.1	54.5	50.5	45.5	188.0	188.9	157.2	55.1
85°	2.3	2.8	10.0	22.0	28.1	22.0	18.5	44.1	45.0	39.8	13.7
87.5°	0.0	0.2	4.0	4.9	5.5	5.7	6.0	8.6	9.2	12.5	3.7
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°	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0	368.0
2.5°	369.6	364.1	353.5	341.2	331.7	322.3	315.0	307.3	304.5	303.1	303.0
5°	373.4	361.7	339.3	316.3	297.3	279.6	266.8	254.6	248.9	246.3	245.3
7.5°	379.5	360.8	324.6	289.5	262.3	240.1	222.4	209.1	202.6	199.8	198.7
10°	386.7	359.5	307.6	261.2	226.6	203.4	185.9	172.9	165.7	162.6	161.1
12.5°	395.2	357.3	287.9	232.7	196.0	172.9	151.7	135.6	127.3	123.8	122.1
15°	405.6	355.2	267.4	205.8	169.1	140.9	117.7	106.8	105.2	104.6	104.7
17.5°	415.8	351.8	245.0	179.2	140.8	110.1	98.3	97.7	98.0	98.0	98.0
20°	425.1	344.2	220.5	156.5	113.9	92.9	90.5	89.4	88.6	88.0	87.2
22.5°	432.3	333.9	197.0	134.0	93.1	85.1	81.2	77.9	75.1	73.2	72.4
25°	437.3	320.2	175.5	112.3	83.7	77.4	70.5	64.8	60.6	57.9	56.8
27.5°	440.9	305.5	156.3	94.0	77.2	68.5	59.4	52.6	48.3	45.9	45.0
30°	443.5	288.7	139.5	82.6	70.1	59.2	49.5	42.9	39.6	38.4	37.8
32.5°	446.0	270.1	123.4	77.2	63.3	50.5	41.5	36.4	34.4	32.9	32.4
35°	452.2	252.9	108.2	71.5	56.4	43.1	35.6	32.0	29.9	29.1	28.7
37.5°	466.7	240.2	93.7	65.8	49.5	37.4	31.2	28.6	26.7	25.8	25.5
40°	490.2	233.7	81.4	59.4	42.7	32.9	28.2	25.8	23.8	22.5	22.1
42.5°	524.7	234.7	72.8	53.1	37.4	29.3	25.5	22.5	20.4	19.2	18.9
45°	566.7	241.5	66.8	46.9	32.9	26.5	22.5	19.4	17.3	16.3	15.9
47.5°	612.1	252.4	61.9	41.5	29.3	23.9	19.4	16.1	14.4	13.5	13.3
50°	660.1	262.9	56.8	36.1	26.3	21.3	16.3	13.3	12.0	11.2	10.9
52.5°	708.6	275.2	52.3	31.2	23.7	18.3	13.5	10.9	9.9	9.2	8.9
55°	760.8	284.4	47.8	27.3	21.1	15.6	11.2	9.0	8.1	7.4	7.2
57.5°	822.3	298.7	43.1	23.7	18.0	12.9	9.2	7.2	6.4	5.7	5.5
60°	905.2	315.4	38.3	20.9	14.7	10.6	7.5	5.9	4.9	4.3	4.2
62.5°	1014.5	334.1	32.1	18.3	12.0	8.6	6.0	4.6	3.5	2.8	2.8
65°	1153.3	364.3	26.3	15.4	9.9	7.1	4.6	3.4	2.0	1.2	1.2
67.5°	1234.1	369.5	21.2	12.6	8.0	6.0	3.8	2.3	0.7	0.2	0.0
69°	1208.2	339.3	18.0	10.7	6.9	5.7	3.5	1.7	0.3	0.0	0.0
70°	1159.3	310.2	15.8	9.5	6.3	5.4	3.4	1.2	0.3	0.0	0.0
72.5°	958.0	220.9	12.0	7.1	4.6	4.8	3.1	0.7	0.3	0.0	0.0
75°	697.8	134.2	8.6	4.9	2.9	3.5	2.1	0.3	0.2	0.0	0.0
77.5°	388.3	63.3	5.4	2.8	1.9	2.1	1.1	0.0	0.0	0.0	0.0
80°	126.1	17.2	2.4	1.5	1.1	1.2	0.5	0.0	0.0	0.0	0.0
82.5°	23.4	4.9	1.4	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.7	0.2	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)