

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: P321235

Luminaire Tested: **GAN-SA1B-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4398 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

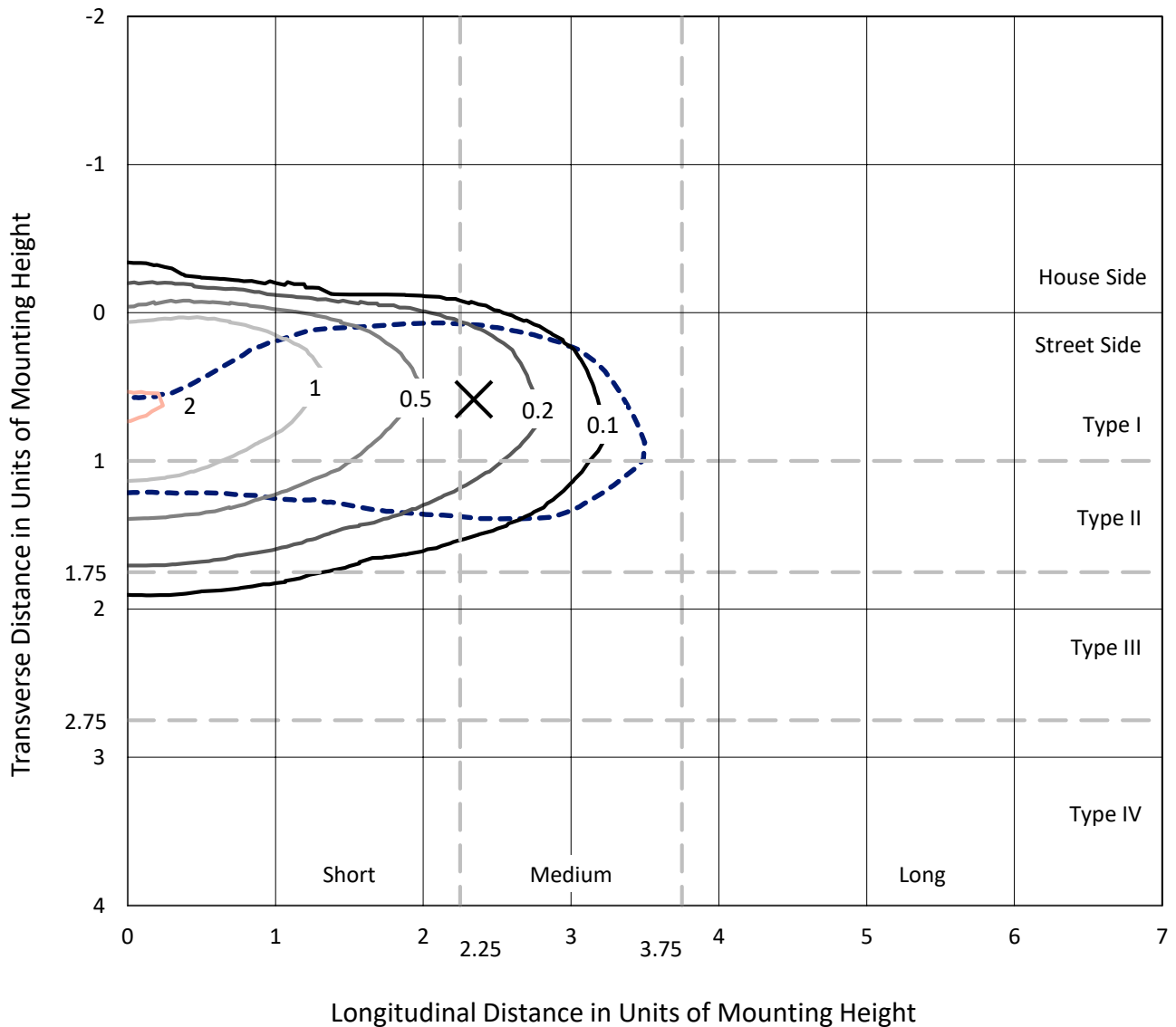
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

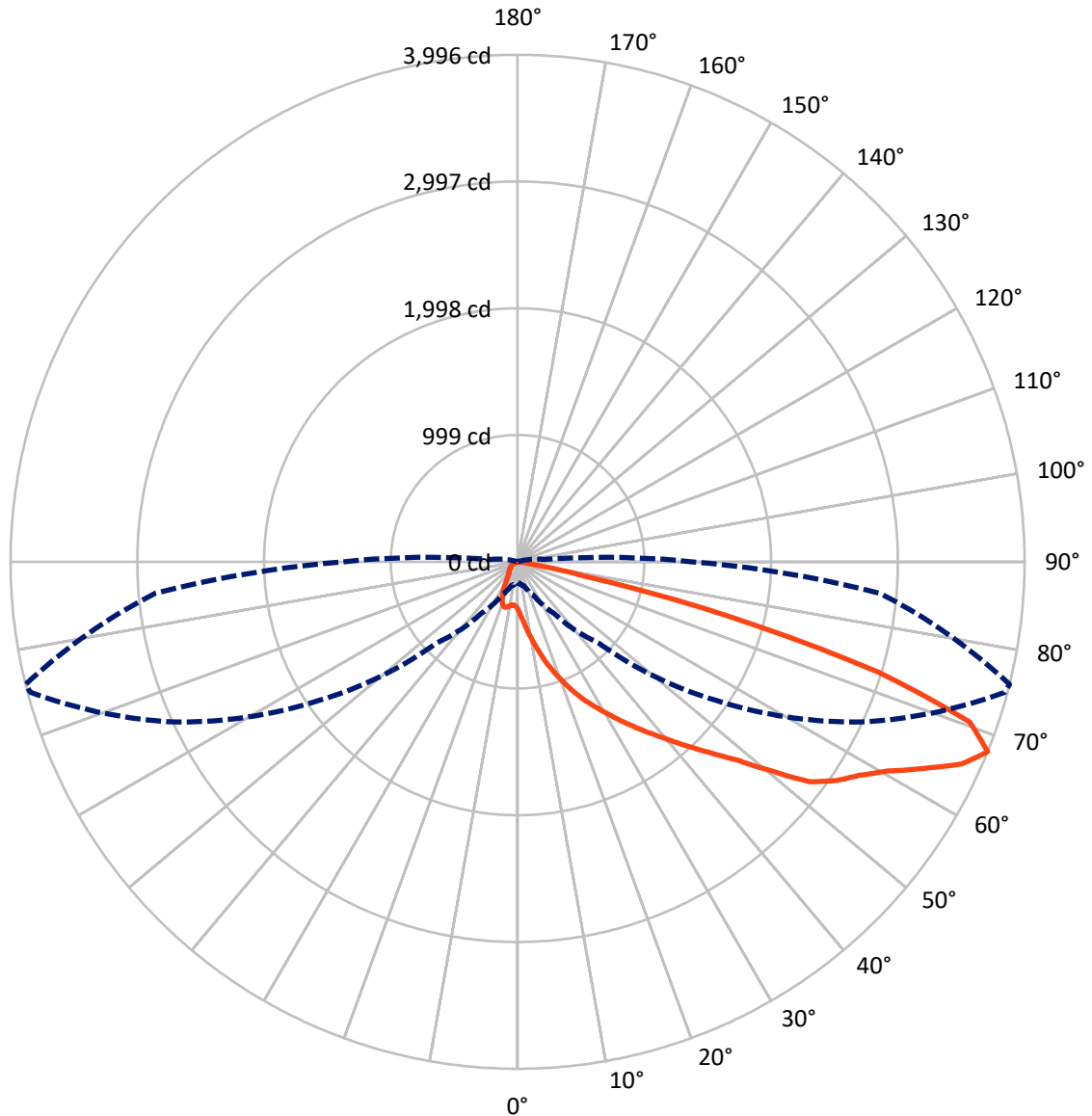
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	218.4	0.0	218.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	4179.6	0.0	4179.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4398.0	0.0	4398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	1.1
10°-20°	183.9	4.2
20°-30°	374.2	8.5
30°-40°	649.5	14.8
40°-50°	917.6	20.9
50°-60°	1040.6	23.7
60°-70°	863.1	19.6
70°-80°	312.6	7.1
80°-90°	10.1	0.2
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°	4398.0	100.0
0°-180°	4398.0	100.0

**Coefficient of Utilization**

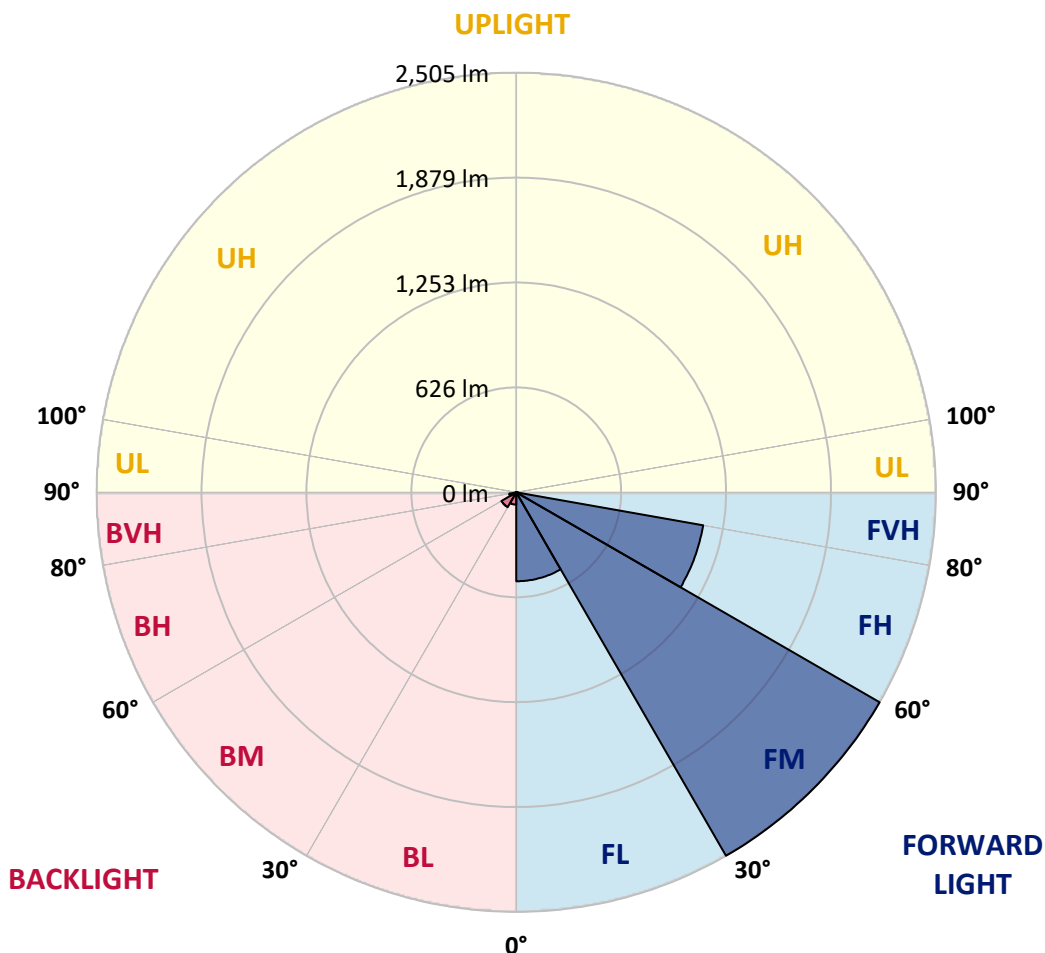


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.8	12.1			
FM (30°-60°)	2505.5	57.0			
FH (60°-80°)	1133.5	25.8			G1/1800
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	73.7	1.7	B0/110		
BM (30°-60°)	102.2	2.3	B0/220		
BH (60°-80°)	42.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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°	75°	76°	85°
0°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	556.9	544.4	547.3	539.2	524.5	494.5	468.9	444.6	416.2	415.3	392.0
5°	751.0	740.4	739.0	722.6	696.1	645.0	595.3	538.6	475.4	470.8	421.3
7.5°	927.1	918.6	915.5	896.1	846.6	796.8	732.1	648.8	550.0	541.5	460.8
10°	1062.4	1058.3	1059.1	1045.2	1002.8	956.6	871.6	765.4	634.6	621.5	508.2
12.5°	1164.9	1165.9	1172.8	1164.3	1140.6	1106.3	1015.6	889.7	728.2	710.3	562.3
15°	1240.3	1245.1	1257.8	1268.4	1266.7	1237.0	1153.7	1015.9	827.7	807.8	622.6
17.5°	1289.0	1294.4	1312.9	1336.4	1358.0	1351.1	1287.1	1137.7	928.3	905.3	687.2
20°	1331.8	1338.1	1358.0	1389.0	1429.3	1438.0	1396.0	1255.9	1028.7	1000.7	753.9
22.5°	1424.5	1424.3	1436.4	1454.5	1492.9	1515.2	1488.6	1365.5	1127.9	1098.8	821.9
25°	1592.1	1585.8	1581.5	1567.3	1575.8	1589.6	1574.8	1468.0	1227.7	1198.2	890.9
27.5°	1791.4	1795.2	1760.9	1722.6	1692.9	1678.7	1654.4	1563.0	1323.7	1291.3	958.3
30°	2001.6	2002.8	1962.3	1913.4	1848.0	1793.9	1751.9	1653.8	1422.4	1387.1	1023.8
32.5°	2191.3	2183.7	2143.7	2077.0	1994.5	1933.6	1846.3	1755.2	1526.8	1492.7	1096.7
35°	2341.6	2332.7	2283.9	2223.2	2137.7	2076.4	1971.4	1856.3	1636.6	1603.3	1169.7
37.5°	2451.4	2441.0	2390.9	2328.5	2254.7	2219.0	2116.5	1966.4	1756.5	1720.7	1246.6
40°	2489.6	2480.5	2449.1	2403.4	2344.1	2336.0	2270.5	2093.0	1887.0	1848.8	1333.7
42.5°	2466.8	2458.0	2446.8	2431.4	2406.7	2414.4	2415.8	2237.3	2031.9	1994.3	1429.9
45°	2376.6	2368.7	2380.3	2402.8	2433.5	2471.6	2548.3	2392.4	2193.8	2153.7	1541.1
47.5°	2243.9	2238.1	2270.1	2326.3	2415.9	2521.2	2669.5	2555.5	2375.5	2338.3	1679.8
50°	2055.0	2054.0	2118.0	2220.7	2358.5	2545.1	2794.8	2740.8	2627.9	2588.8	1872.7
52.5°	1760.9	1762.9	1888.7	2053.1	2257.7	2528.9	2875.4	2979.0	2921.6	2880.9	2039.8
55°	1480.9	1492.5	1581.7	1818.8	2103.2	2468.7	2903.1	3090.2	3083.7	3045.1	2132.7
57.5°	1206.7	1227.7	1313.7	1535.1	1877.5	2330.2	2887.9	3138.4	3204.3	3174.8	2255.2
60°	909.6	919.2	1018.3	1225.2	1587.9	2077.4	2777.5	3164.6	3369.3	3348.8	2433.1
62.5°	578.7	602.8	690.7	890.3	1236.4	1726.3	2591.3	3164.2	3575.6	3586.8	2662.6
65°	304.9	333.0	379.6	551.7	849.6	1334.1	2311.3	3134.5	3828.9	3844.5	2842.0
67.5°	164.4	172.5	197.1	286.4	492.7	903.8	1899.9	2988.1	3975.5	3996.1	2867.1
70°	120.2	124.7	133.9	158.4	248.0	524.9	1386.3	2656.1	3786.5	3778.8	2547.4
72.5°	92.3	99.2	106.2	116.0	142.6	280.2	863.1	2079.9	3021.2	2970.4	1904.1
75°	72.8	74.0	83.8	92.7	107.0	159.6	383.3	1211.3	1844.0	1723.6	987.4
77.5°	58.2	59.0	64.7	72.5	85.9	104.8	118.7	476.6	588.7	525.3	214.3
80°	34.5	36.4	48.2	55.9	71.3	66.1	43.4	103.5	91.9	83.2	36.0
82.5°	19.3	20.8	27.2	44.1	49.7	31.6	21.6	27.9	21.6	21.0	10.2
85°	0.0	1.0	17.5	27.4	20.2	6.9	9.1	9.2	6.4	6.0	4.0
87.5°	0.0	0.0	5.4	5.2	0.8	1.2	2.1	3.1	2.5	2.5	2.1
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°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	380.4	370.0	350.3	331.1	314.9	301.6	289.6	284.8	281.0	280.4	277.3
5°	397.4	376.4	338.8	307.9	287.3	272.7	260.2	252.4	246.5	244.2	242.0
7.5°	423.0	391.2	337.2	301.8	277.1	252.4	229.3	204.3	188.7	182.7	179.2
10°	454.2	410.8	343.0	300.0	256.9	204.8	166.5	134.7	121.8	117.6	116.4
12.5°	490.6	435.3	353.0	289.3	213.7	145.5	114.9	104.1	101.2	99.8	99.8
15°	532.4	462.1	360.2	258.0	158.0	110.0	99.4	94.4	91.3	89.6	89.8
17.5°	575.2	488.3	356.7	212.7	116.6	97.9	90.0	84.6	80.4	78.6	78.2
20°	618.4	512.6	337.4	158.4	98.7	88.8	80.0	74.0	69.8	68.0	67.6
22.5°	663.1	533.2	303.5	116.2	88.6	78.8	70.1	64.2	60.1	58.6	57.8
25°	706.7	550.0	256.1	94.0	79.2	69.4	61.1	55.5	51.8	50.3	50.1
27.5°	747.3	560.6	201.2	83.1	70.9	60.9	53.4	48.4	45.3	44.1	43.9
30°	783.9	561.5	148.8	75.0	63.6	53.6	46.6	42.2	39.5	38.3	38.0
32.5°	820.9	553.5	108.3	67.6	56.8	47.2	40.5	37.0	35.1	34.1	34.1
35°	855.8	534.8	84.4	61.3	50.3	41.0	35.7	33.1	32.0	31.0	31.0
37.5°	889.9	508.0	71.7	55.7	44.1	35.8	31.4	29.9	28.9	27.9	27.9
40°	924.6	474.2	65.1	50.5	39.1	31.8	27.9	26.6	25.6	24.9	24.7
42.5°	967.2	435.3	60.9	45.7	34.7	28.1	24.7	23.1	22.4	21.6	21.2
45°	1016.5	401.8	57.4	40.9	31.0	25.1	21.4	19.8	18.7	17.7	17.5
47.5°	1087.6	377.5	52.8	35.7	27.6	21.8	18.5	16.8	15.0	14.1	13.9
50°	1178.4	357.5	46.8	31.0	24.1	18.5	15.4	13.3	11.8	10.8	10.8
52.5°	1223.5	331.3	41.4	27.0	20.2	15.6	12.5	10.0	9.2	8.3	8.3
55°	1241.6	311.2	36.0	22.9	16.8	12.9	9.8	7.7	7.1	6.6	6.4
57.5°	1292.5	305.4	31.4	19.5	13.9	10.2	7.5	5.8	5.4	4.6	4.6
60°	1374.4	308.3	27.2	16.6	11.2	7.9	5.6	4.4	4.0	3.3	3.3
62.5°	1462.8	304.7	22.9	14.3	8.7	5.8	3.9	3.3	3.3	1.9	1.7
65°	1479.8	271.3	19.7	11.8	6.7	4.2	2.5	2.1	2.9	0.4	0.0
67.5°	1373.4	210.4	17.0	9.1	5.0	3.3	1.9	1.0	2.5	0.0	0.0
70°	1098.2	133.7	13.7	6.6	3.9	2.7	1.5	0.4	1.9	0.0	0.0
72.5°	776.6	77.7	10.8	4.6	3.3	2.1	1.2	0.0	1.2	0.0	0.0
75°	392.7	41.4	6.7	3.5	2.5	1.5	0.8	0.0	0.2	0.0	0.0
77.5°	85.0	19.3	4.2	2.5	1.7	1.0	0.4	0.0	0.0	0.0	0.0
80°	18.5	8.5	2.7	1.5	1.0	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	6.7	4.4	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.8	0.2	0.2	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)