

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: P323185

Luminaire Tested: **GAN-SA1A-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

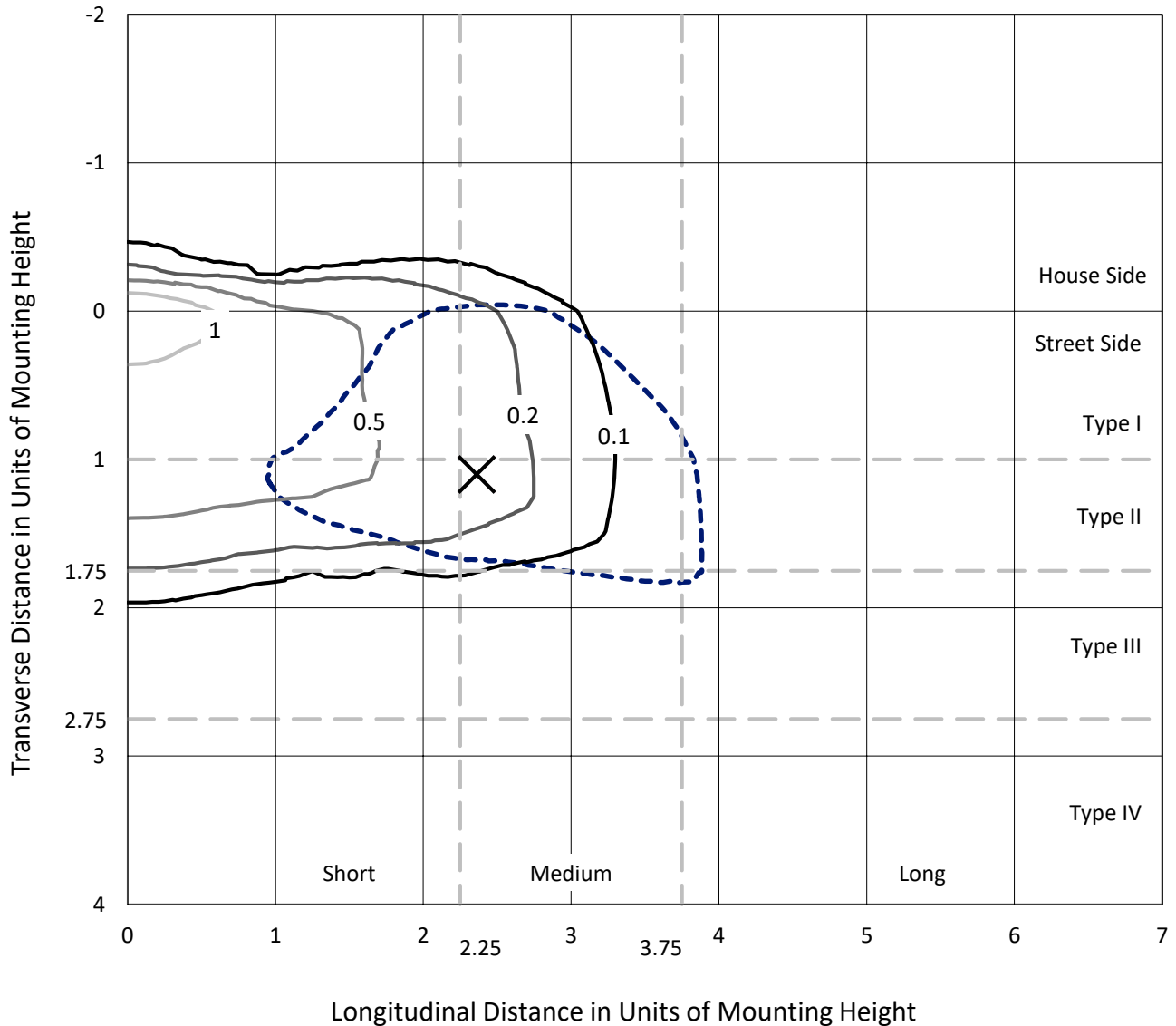
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

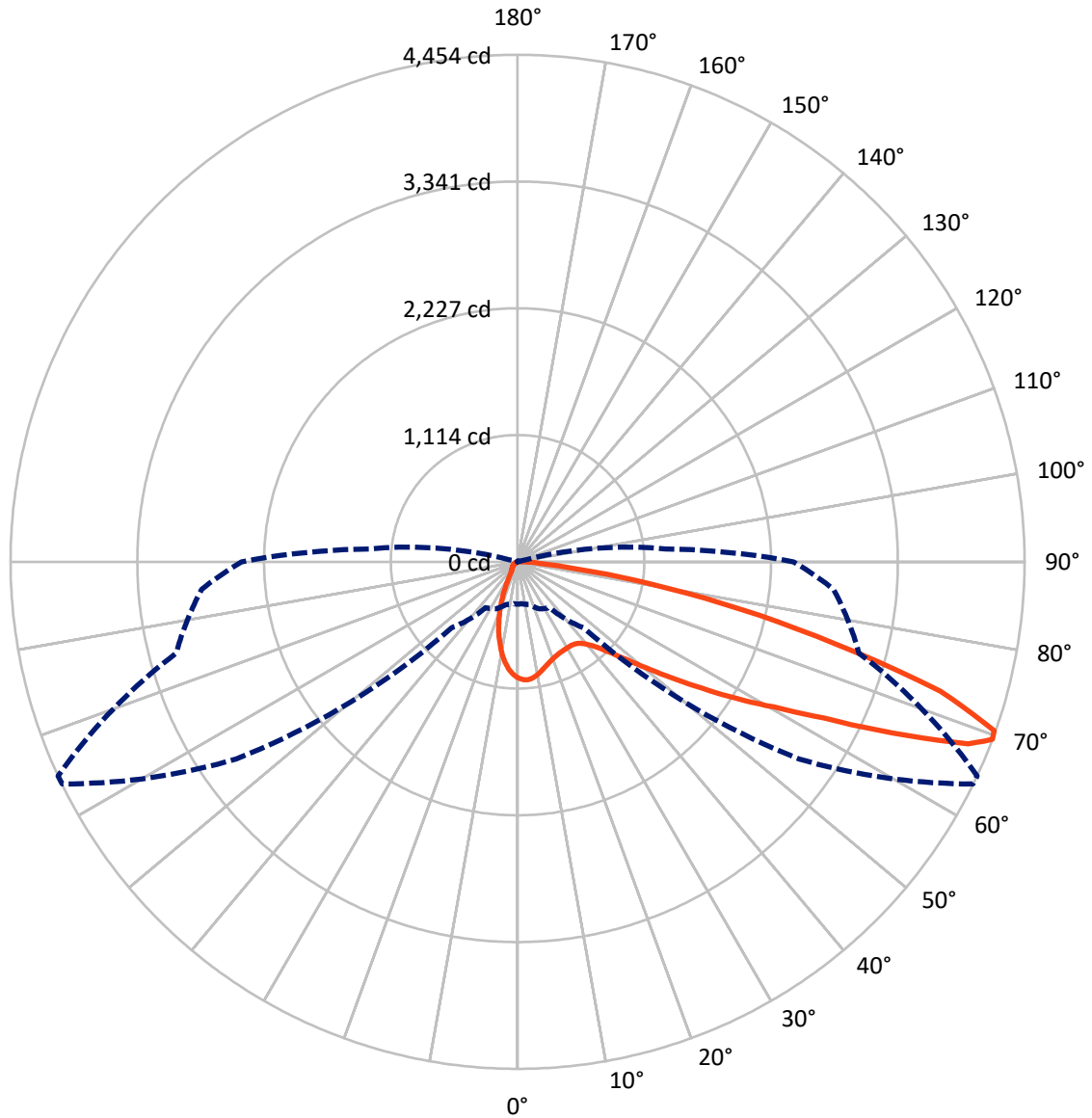
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.3	0.0	476.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3564.7	0.0	3564.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	4041.0	0.0	4041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	2.1
10°-20°	186.9	4.6
20°-30°	258.9	6.4
30°-40°	361.0	8.9
40°-50°	561.1	13.9
50°-60°	900.8	22.3
60°-70°	1018.9	25.2
70°-80°	598.4	14.8
80°-90°	69.6	1.7
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°	4041.0	100.0
0°-180°	4041.0	100.0

Coefficient of Utilization

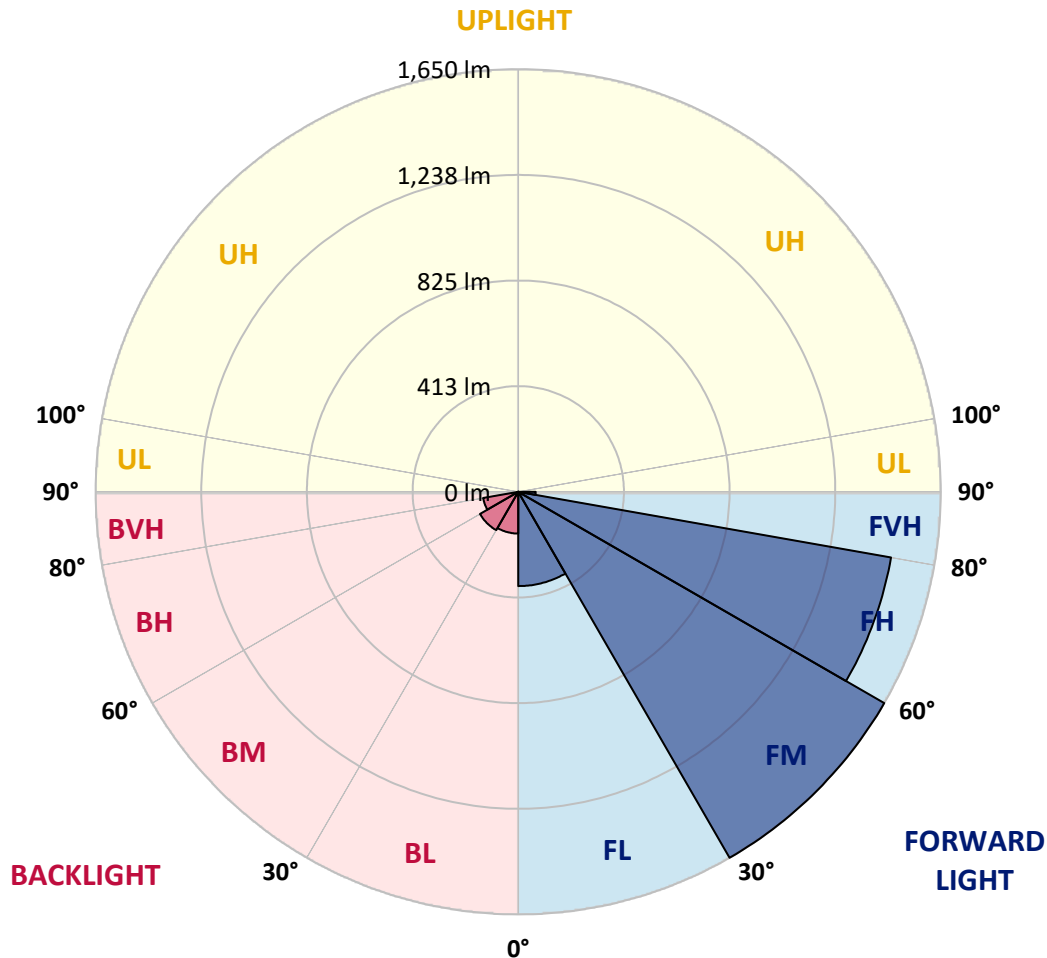


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.2	9.1			
FM (30°-60°)	1650.2	40.8			
FH (60°-80°)	1478.2	36.6			G1/1800
FVH (80°-90°)	68.0	1.7			G1/100
BL (0°-30°)	163.0	4.0	B1/500		
BM (30°-60°)	172.6	4.3	B0/220		
BH (60°-80°)	139.2	3.4	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2
2.5°	1030.2	1027.7	1029.7	1034.2	1036.4	1036.4	1038.1	1036.0	1036.7	1031.8	1024.6
5°	965.8	961.8	967.5	980.0	995.3	1008.5	1028.0	1038.3	1039.3	1039.5	1031.1
7.5°	896.3	892.8	901.1	915.8	935.7	960.1	994.2	1023.9	1025.6	1041.7	1035.5
10°	839.9	837.4	847.1	862.8	886.1	913.4	955.2	996.5	1001.5	1037.1	1034.8
12.5°	795.1	793.1	802.3	820.4	844.2	874.5	918.1	966.1	972.8	1026.6	1031.4
15°	762.5	762.1	769.8	787.2	813.6	841.8	886.4	937.9	945.6	1015.4	1030.9
17.5°	745.4	745.9	751.5	766.4	789.0	817.0	859.8	914.1	922.5	1005.3	1033.5
20°	743.6	744.2	747.2	755.6	773.9	798.7	838.0	894.1	902.8	997.7	1037.6
22.5°	758.7	758.4	759.2	758.4	768.6	787.4	823.7	878.7	888.8	992.8	1040.8
25°	787.6	787.1	786.7	780.4	773.6	783.7	817.7	870.0	879.6	989.2	1042.7
27.5°	827.8	827.4	826.9	816.5	796.0	789.6	818.4	866.8	874.8	986.3	1042.4
30°	880.6	883.0	882.3	867.8	835.8	807.9	825.6	865.1	872.1	980.6	1038.8
32.5°	942.7	947.5	951.2	935.7	895.7	844.2	842.1	866.9	872.1	976.4	1032.3
35°	1007.1	1013.3	1027.2	1021.7	969.0	898.7	870.7	878.2	882.5	978.8	1029.2
37.5°	1070.6	1077.9	1108.0	1123.9	1065.1	970.9	915.2	906.1	908.3	993.3	1032.6
40°	1144.3	1155.4	1201.1	1226.7	1179.8	1067.5	981.7	954.0	954.8	1025.3	1048.5
42.5°	1241.1	1252.5	1301.9	1342.1	1309.1	1189.6	1072.0	1027.2	1026.3	1085.1	1086.0
45°	1359.0	1371.0	1422.1	1466.8	1451.9	1334.3	1187.5	1134.0	1133.0	1179.5	1156.9
47.5°	1492.8	1504.6	1550.2	1596.2	1612.3	1503.2	1334.8	1279.9	1277.5	1310.7	1266.5
50°	1607.5	1615.2	1657.3	1719.2	1791.7	1710.8	1517.9	1465.1	1462.5	1484.9	1427.4
52.5°	1649.2	1653.7	1696.4	1783.1	1964.0	1991.9	1758.5	1690.4	1688.6	1698.3	1641.7
55°	1564.8	1572.8	1625.3	1753.9	2057.4	2309.6	2062.2	1969.5	1955.3	1934.3	1865.7
57.5°	1334.6	1347.4	1403.8	1574.8	2013.8	2561.6	2508.5	2285.1	2264.3	2135.7	2047.8
60°	1000.0	1015.7	1062.5	1247.0	1781.1	2651.4	2996.1	2636.9	2589.9	2296.1	2215.2
62.5°	686.2	694.1	725.9	846.1	1311.7	2504.4	3404.1	3108.0	3022.1	2470.5	2396.3
65°	524.1	526.8	539.8	581.2	781.1	2034.3	3566.4	3729.5	3625.7	2679.1	2584.2
67.5°	422.4	420.1	438.1	497.2	523.1	1241.1	3377.1	4317.6	4269.0	2958.0	2773.3
69°	372.4	369.3	387.6	456.4	491.3	820.4	3019.0	4451.1	4454.2	3105.2	2786.3
70°	335.1	337.2	355.3	432.1	480.5	644.0	2677.1	4417.1	4441.4	3160.3	2708.4
72.5°	223.8	229.3	265.7	358.7	462.0	487.3	1616.4	3790.4	3883.8	3036.3	2323.6
75°	126.2	130.3	173.6	270.5	435.3	464.1	853.8	2792.5	2882.8	2539.1	1791.8
77.5°	61.9	64.1	98.1	174.6	364.0	442.2	484.3	1896.8	1999.9	1657.3	1013.5
80°	26.2	27.4	49.1	107.7	260.3	422.0	359.6	1167.4	1180.2	649.3	270.0
82.5°	10.1	10.4	20.7	67.2	165.3	329.0	300.8	553.5	540.2	122.3	61.6
85°	1.2	1.4	7.5	40.4	92.0	169.3	244.3	238.5	220.8	24.3	31.6
87.5°	0.0	0.0	0.5	12.3	27.4	79.3	127.0	99.0	89.3	7.9	16.4
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°	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2	1021.2
2.5°	1018.6	1016.9	1007.7	994.3	981.7	965.9	950.9	941.8	934.6	929.9	935.5
5°	1021.3	1013.8	985.8	949.9	914.6	875.0	838.0	806.7	794.4	780.8	786.9
7.5°	1020.5	1006.3	955.8	891.9	827.3	760.4	697.1	648.4	623.1	598.3	604.6
10°	1016.2	992.3	915.8	821.1	724.3	628.2	538.5	470.2	432.1	397.6	402.5
12.5°	1006.8	973.5	868.6	740.1	610.6	483.9	378.7	291.4	244.5	223.8	226.4
15°	1001.2	955.2	818.7	658.0	489.2	337.0	231.5	172.2	150.8	144.0	144.8
17.5°	998.4	937.6	767.1	564.1	365.1	214.6	149.6	132.0	127.4	126.2	126.5
20°	995.7	919.8	713.9	471.3	251.5	144.3	122.9	117.8	116.1	114.6	114.9
22.5°	991.1	902.7	656.8	377.2	169.6	117.1	110.8	105.8	102.3	100.4	100.7
25°	985.4	884.7	598.5	280.9	123.8	104.5	98.5	91.5	87.2	83.8	84.0
27.5°	976.4	862.7	538.3	204.5	104.0	93.5	85.5	77.8	70.6	66.7	66.7
30°	963.7	837.7	471.4	146.4	93.2	82.8	73.0	63.4	55.7	52.2	51.8
32.5°	949.7	811.7	403.9	111.0	84.6	72.7	61.6	51.5	44.6	41.7	41.6
35°	937.7	783.7	336.5	93.0	76.1	62.9	50.8	42.2	36.8	34.4	34.2
37.5°	930.0	755.6	270.9	83.1	68.4	53.9	42.6	34.9	30.9	29.1	28.9
40°	928.8	734.8	210.8	75.6	61.2	45.8	35.6	29.6	26.0	23.9	23.8
42.5°	944.4	722.8	161.8	69.3	53.9	38.8	30.3	25.3	21.5	19.5	19.3
45°	985.3	726.5	124.5	63.6	46.5	32.8	25.6	21.0	17.6	16.1	15.7
47.5°	1059.8	752.5	99.0	58.0	39.5	27.9	21.9	17.4	14.5	13.0	12.8
50°	1192.5	813.6	82.8	51.8	33.0	23.8	18.1	14.2	11.8	10.4	10.3
52.5°	1368.6	922.3	73.9	45.8	27.4	20.2	14.9	11.3	9.2	8.2	8.0
55°	1562.9	1054.0	68.1	39.3	22.4	16.8	11.8	8.9	7.2	6.3	6.0
57.5°	1752.5	1168.1	62.6	33.0	18.6	13.7	9.4	7.0	5.6	4.8	4.6
60°	1926.7	1272.9	56.3	26.5	15.2	10.8	7.4	5.5	4.4	3.6	3.6
62.5°	2113.3	1353.9	47.5	20.7	12.5	8.2	6.0	5.0	3.6	3.1	2.9
65°	2311.0	1414.1	37.3	16.1	9.7	6.2	5.0	5.1	2.9	2.2	2.1
67.5°	2457.0	1402.1	27.5	12.7	7.5	4.8	4.8	5.5	2.6	1.7	1.5
69°	2424.8	1304.8	23.1	10.9	6.5	4.1	4.4	5.5	2.4	1.5	1.4
70°	2331.7	1197.1	20.3	9.7	5.8	3.8	4.3	5.3	2.2	1.5	1.4
72.5°	1941.8	901.6	15.9	7.4	4.6	3.1	3.6	4.6	2.2	1.5	1.2
75°	1460.6	577.1	12.1	5.3	3.4	2.4	2.7	3.4	2.2	1.4	1.2
77.5°	794.8	208.1	8.7	3.6	2.4	1.9	1.9	2.6	2.1	1.0	0.7
80°	204.3	52.3	5.5	2.4	1.9	1.4	1.2	1.7	1.2	0.2	0.0
82.5°	50.4	11.8	2.9	1.7	1.4	0.5	0.5	0.9	0.5	0.0	0.0
85°	27.7	5.8	1.9	1.2	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	14.2	1.7	0.5	0.3	0.2	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)