

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: P317745

Luminaire Tested: **GAN-SA1A-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4988 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

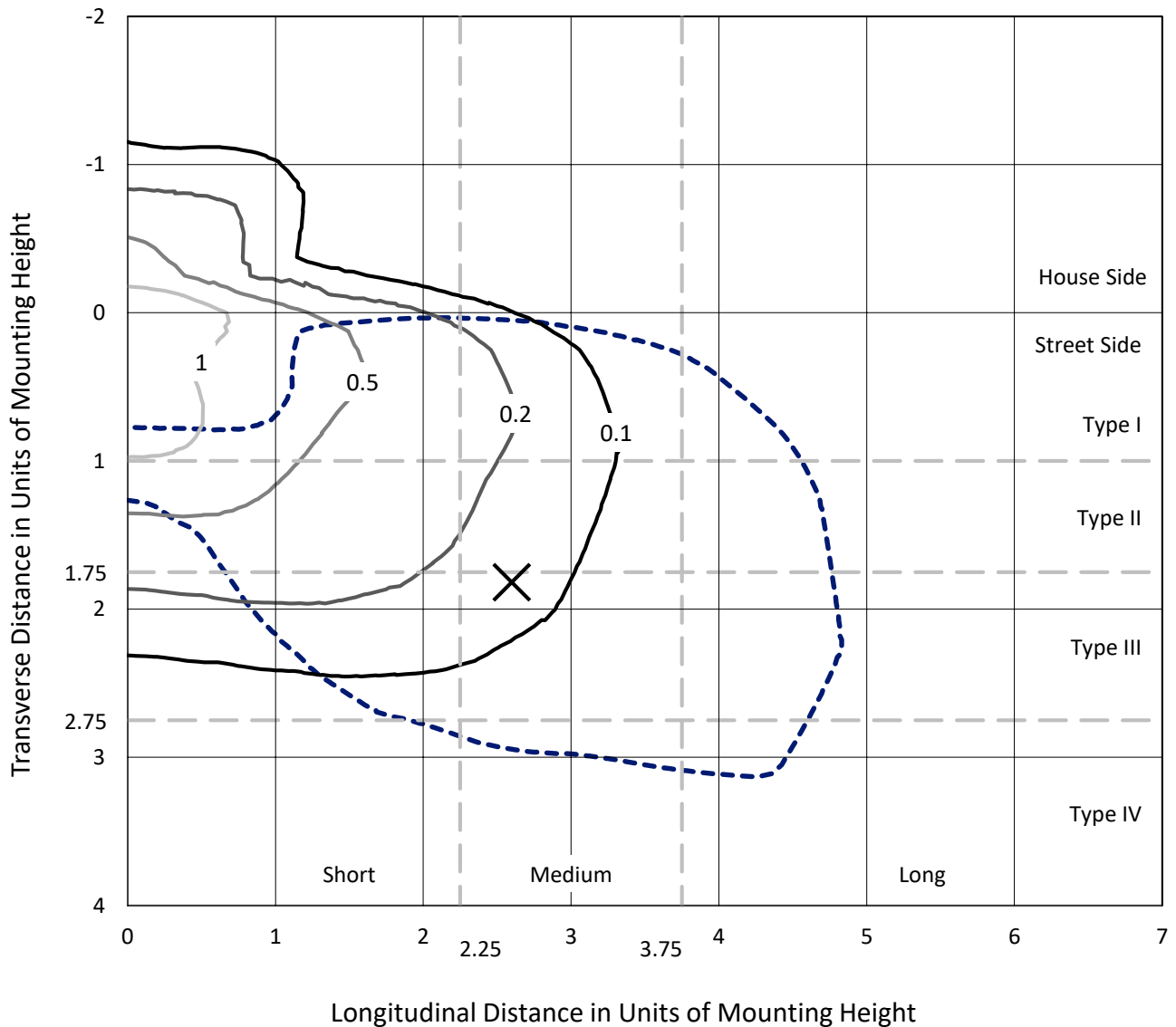
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

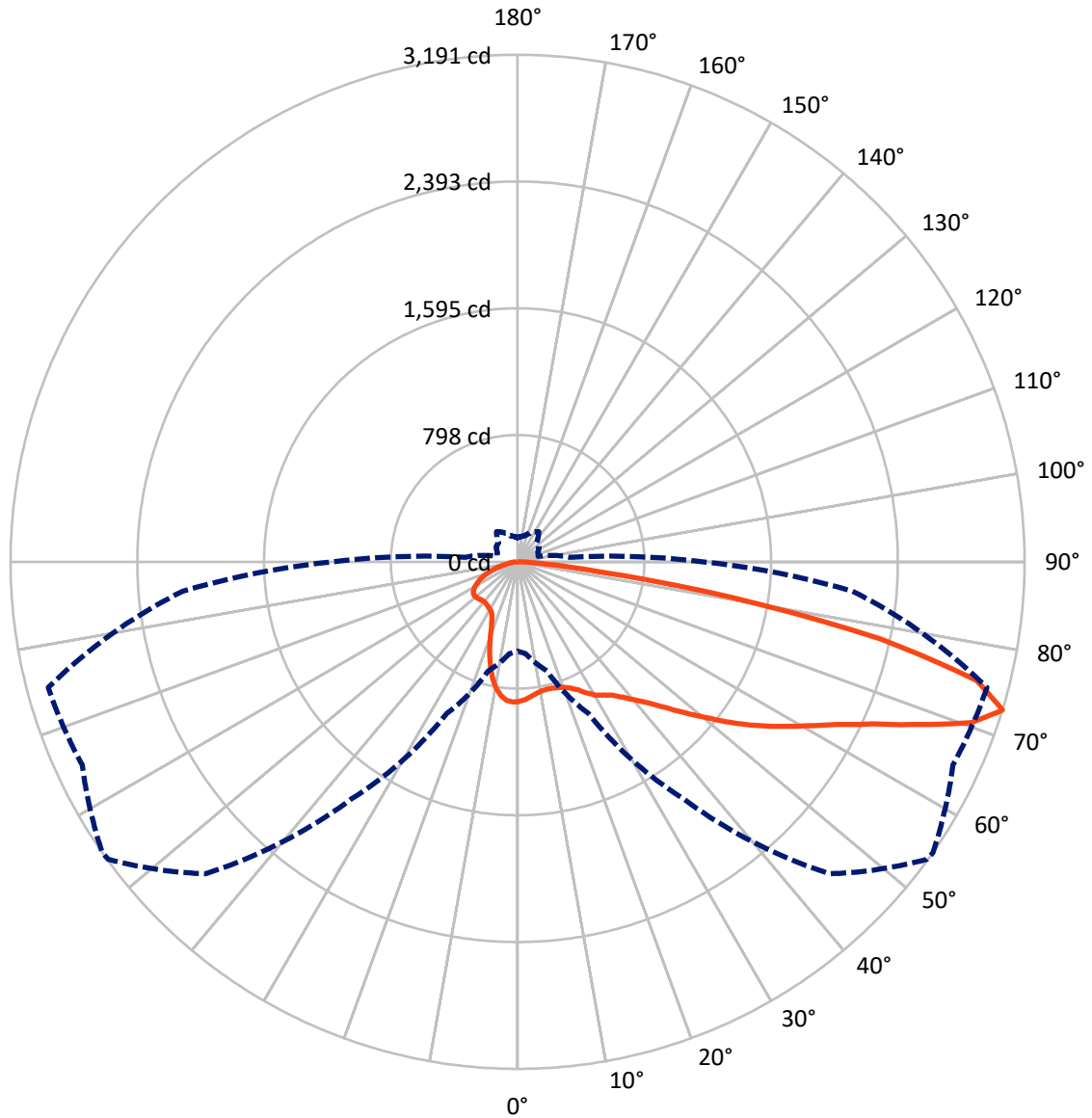
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.1	0.0	927.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4060.9	0.0	4060.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	4988.0	0.0	4988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.6
10°-20°	211.9	4.2
20°-30°	349.5	7.0
30°-40°	516.9	10.4
40°-50°	721.5	14.5
50°-60°	939.4	18.8
60°-70°	1154.5	23.1
70°-80°	905.0	18.1
80°-90°	109.5	2.2
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°	4988.0	100.0
0°-180°	4988.0	100.0

Coefficient of Utilization

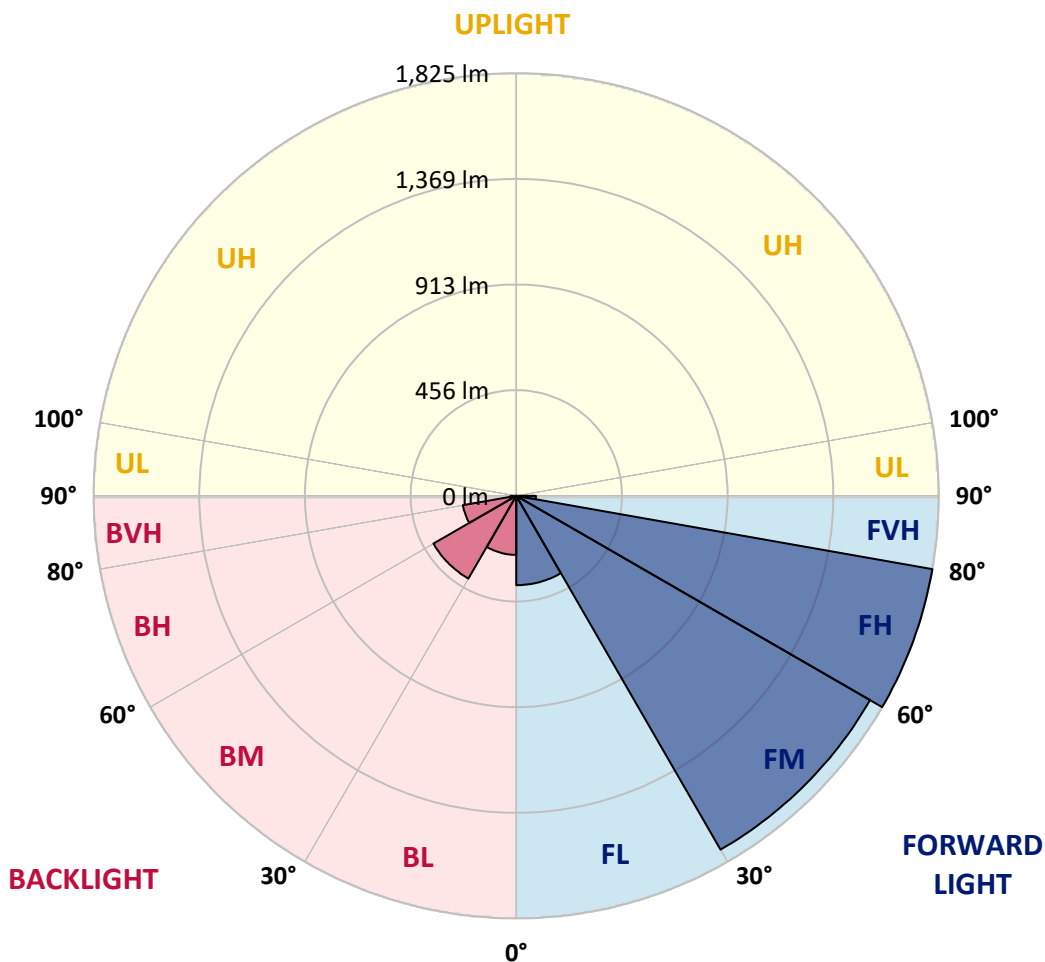


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.9	7.7			
FM (30°-60°)	1764.9	35.4			
FH (60°-80°)	1825.4	36.6			G2/5000
FVH (80°-90°)	84.7	1.7			G1/100
BL (0°-30°)	255.1	5.1	B1/500		
BM (30°-60°)	413.0	8.3	B1/1000		
BH (60°-80°)	234.1	4.7	B1/500		G1/500
BVH (80°-90°)	24.8	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8
2.5°	851.1	849.1	851.6	855.2	859.1	864.3	867.3	868.7	873.9	875.9	880.3
5°	811.7	810.7	814.9	821.0	829.6	841.7	851.5	853.3	867.1	876.9	885.8
7.5°	783.1	783.1	788.0	795.2	804.8	821.1	835.0	837.5	860.9	882.0	898.5
10°	760.3	761.2	766.9	775.5	786.8	804.1	822.5	825.4	859.2	893.8	920.0
12.5°	745.2	747.2	752.4	760.2	774.1	795.2	818.5	822.3	862.8	910.6	946.0
15°	754.8	758.1	758.6	761.8	769.6	792.5	820.8	824.9	870.3	927.8	975.5
17.5°	796.9	798.1	792.8	786.1	782.4	797.1	827.9	832.1	879.4	944.8	1003.8
20°	860.9	860.2	848.9	830.7	811.9	814.2	839.5	843.9	891.7	959.8	1032.1
22.5°	941.8	939.4	922.1	888.5	856.4	842.9	859.9	863.6	910.3	981.2	1062.4
25°	1039.8	1034.6	1011.7	966.7	919.4	884.7	890.6	894.1	937.2	1005.1	1090.2
27.5°	1143.3	1138.0	1108.9	1054.5	991.5	937.4	932.8	935.9	967.9	1022.8	1110.8
30°	1251.4	1245.9	1219.3	1158.3	1068.0	992.0	972.3	973.4	989.5	1032.4	1127.6
32.5°	1360.1	1354.9	1325.1	1254.3	1151.0	1050.6	1000.7	999.2	1002.4	1042.4	1146.6
35°	1470.3	1472.3	1437.4	1359.1	1243.0	1115.8	1034.4	1031.2	1024.2	1062.7	1173.6
37.5°	1588.2	1586.9	1541.7	1459.8	1339.2	1186.6	1082.8	1082.3	1057.9	1101.3	1215.9
40°	1667.1	1667.9	1640.4	1562.9	1436.4	1264.9	1144.8	1143.6	1111.6	1159.1	1271.3
42.5°	1697.9	1703.4	1710.5	1661.3	1538.2	1355.7	1218.7	1217.1	1186.6	1242.0	1336.5
45°	1700.1	1711.2	1755.0	1748.8	1641.3	1459.7	1313.3	1308.5	1286.6	1352.2	1414.3
47.5°	1681.2	1692.7	1765.4	1800.8	1733.4	1569.3	1423.8	1420.1	1401.2	1490.0	1498.6
50°	1639.9	1650.9	1743.9	1826.3	1809.3	1674.8	1551.1	1541.4	1531.3	1649.2	1595.0
52.5°	1562.6	1583.7	1715.1	1832.3	1854.6	1768.5	1685.1	1678.7	1684.2	1817.2	1691.5
55°	1379.5	1403.1	1640.8	1827.3	1888.1	1847.2	1819.0	1818.7	1847.5	1993.4	1795.1
57.5°	1276.9	1293.6	1489.5	1818.7	1927.9	1925.3	1951.6	1954.8	2010.9	2185.3	1903.6
60°	1218.9	1236.4	1412.8	1786.8	1989.5	2026.4	2086.9	2093.3	2177.0	2397.7	2034.2
62.5°	1166.2	1185.4	1365.3	1722.0	2062.1	2171.0	2249.0	2254.7	2352.9	2616.1	2160.4
65°	1076.0	1097.8	1295.7	1679.4	2128.2	2359.5	2455.0	2458.9	2554.9	2844.9	2256.9
67.5°	948.7	968.6	1164.5	1585.2	2177.0	2588.4	2729.0	2731.1	2755.2	3006.4	2306.3
70°	799.9	807.5	977.5	1390.8	2119.2	2802.6	3029.2	3029.7	2937.9	3109.9	2298.2
72.5°	562.0	579.9	709.6	1052.8	1821.2	2776.5	3185.0	3190.7	3022.8	3057.7	2114.5
75°	344.7	363.6	445.1	638.0	1155.4	2183.6	2942.8	2982.5	2863.6	2726.3	1727.4
77.5°	230.5	237.5	290.5	372.0	523.5	1256.3	2262.4	2337.3	2378.9	1988.2	1104.7
80°	128.5	142.0	192.6	231.1	232.8	499.2	1356.6	1374.1	1323.5	791.7	340.8
82.5°	68.1	75.5	128.5	135.8	127.0	167.1	505.6	506.1	422.9	212.3	101.3
85°	52.7	59.0	88.1	82.9	64.9	74.1	166.8	175.9	143.9	86.9	33.0
87.5°	26.3	32.7	59.8	52.6	25.4	21.2	59.6	63.7	56.8	34.0	12.0
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°	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8	879.8
2.5°	882.0	883.5	885.3	883.3	882.6	879.9	875.4	874.4	872.0	872.2	873.5
5°	889.7	892.2	891.2	883.5	874.2	861.2	847.8	836.3	828.7	828.2	827.7
7.5°	904.5	906.2	898.3	876.2	850.3	820.3	792.0	767.2	752.2	748.5	747.7
10°	927.8	927.5	905.7	861.2	809.5	755.9	710.5	676.1	656.0	650.1	648.6
12.5°	953.7	949.9	908.2	834.0	751.9	677.6	620.0	581.7	560.9	554.1	552.4
15°	980.5	970.9	902.0	793.2	681.1	593.2	532.7	497.3	486.1	482.3	481.7
17.5°	1005.5	986.9	884.2	737.9	600.4	509.1	462.0	447.8	450.5	455.4	455.6
20°	1029.9	997.7	855.5	668.2	515.4	439.9	423.9	434.3	447.1	457.1	458.4
22.5°	1054.0	1005.3	818.6	587.6	439.2	401.0	412.3	431.3	446.0	456.7	458.6
25°	1074.2	1007.1	767.7	501.7	386.3	386.3	406.7	424.7	439.2	449.8	451.7
27.5°	1081.6	994.7	696.0	422.2	359.7	379.6	398.9	413.9	426.2	437.5	439.6
30°	1084.5	971.6	613.1	358.3	348.7	372.3	388.5	401.3	412.9	423.5	425.4
32.5°	1085.0	943.8	525.1	322.1	341.2	364.7	375.5	386.8	399.3	403.5	404.2
35°	1088.2	910.9	432.5	303.6	334.1	357.7	366.3	374.4	354.1	355.7	357.0
37.5°	1097.4	878.4	355.0	293.1	329.5	354.0	364.2	334.9	319.1	315.4	314.9
40°	1114.8	843.7	297.5	284.7	327.9	355.8	351.3	312.7	285.4	265.0	262.0
42.5°	1138.9	806.3	260.8	279.2	329.0	364.7	333.2	291.3	246.0	232.8	231.1
45°	1166.0	767.1	240.9	275.3	333.1	371.7	329.5	262.8	227.6	217.7	216.8
47.5°	1192.3	719.1	230.6	273.6	338.6	366.1	313.9	254.1	218.8	213.6	214.1
50°	1222.5	675.8	224.4	271.7	343.5	362.6	296.2	249.5	215.5	221.9	228.6
52.5°	1247.9	630.9	218.8	268.0	345.4	356.3	291.6	250.4	215.5	227.8	234.2
55°	1278.1	597.1	212.4	260.3	341.8	338.6	288.4	255.4	218.0	210.3	210.9
57.5°	1317.0	586.0	205.4	248.2	330.0	312.9	286.9	260.3	216.5	211.6	213.3
60°	1370.9	597.7	202.5	232.3	311.7	292.6	287.1	257.8	205.9	197.5	197.6
62.5°	1422.3	610.9	202.3	222.4	289.1	274.6	283.2	249.5	200.5	195.6	197.5
65°	1439.1	597.6	194.3	211.3	263.7	253.0	276.1	240.8	196.4	189.0	188.7
67.5°	1416.5	556.3	177.9	193.2	234.5	227.9	266.9	230.3	190.0	184.0	183.0
70°	1349.5	464.1	157.7	169.5	201.3	199.6	252.2	218.2	181.4	176.2	171.8
72.5°	1169.0	330.7	132.9	141.0	163.9	169.3	232.0	202.3	169.3	158.0	151.3
75°	960.1	244.8	109.2	110.9	124.5	139.2	204.2	183.8	155.0	135.8	130.6
77.5°	588.0	149.8	86.9	87.6	89.3	111.0	168.1	163.1	136.8	113.2	109.5
80°	190.4	81.7	62.8	66.0	61.0	81.4	130.1	138.8	117.4	94.7	90.6
82.5°	72.4	47.7	42.5	44.6	42.3	54.6	94.9	111.2	96.2	77.8	63.3
85°	35.0	27.0	25.1	28.1	26.1	28.0	60.7	81.9	72.9	50.7	47.2
87.5°	12.5	12.0	9.6	13.0	11.1	9.9	18.5	41.3	48.2	34.9	31.2
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)