

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: P317675

Luminaire Tested: **GAN-SA1B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317675
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-SA1B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5116 lumens
Efficiency: N/A
Efficacy: 116.3 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

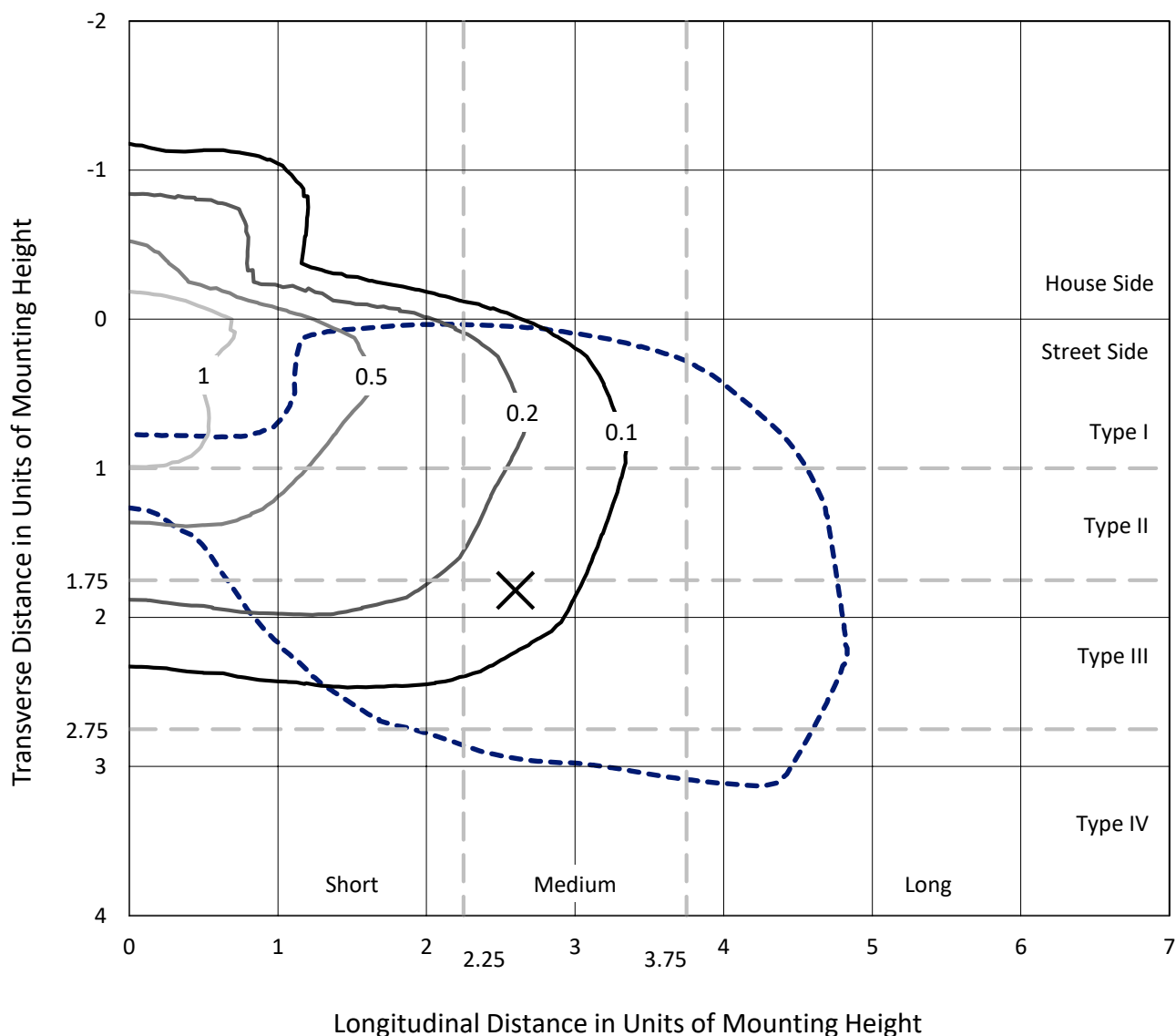
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

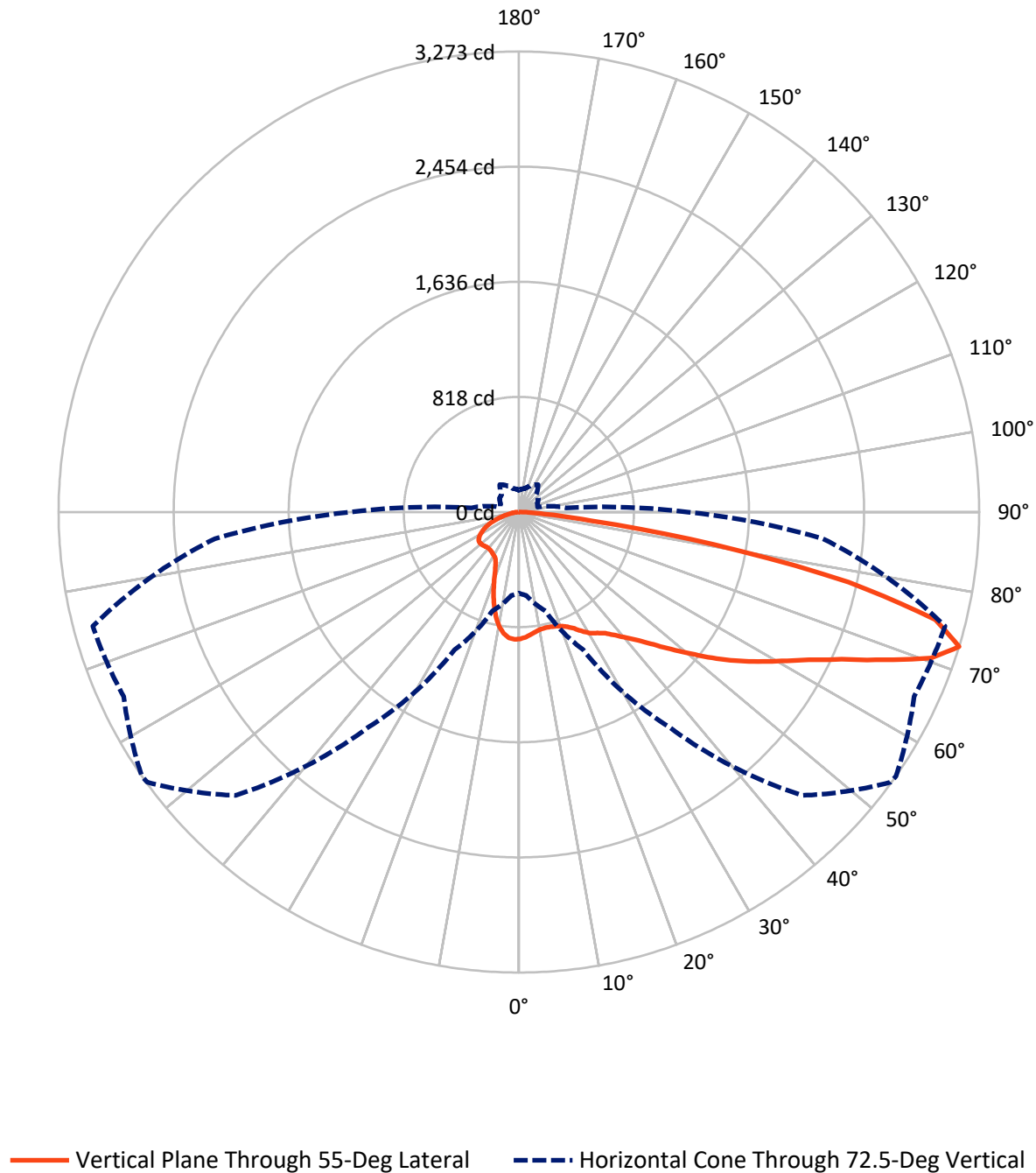
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.9	0.0	950.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4165.1	0.0	4165.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	5116.0	0.0	5116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.6
10°-20°	217.4	4.2
20°-30°	358.4	7.0
30°-40°	530.2	10.4
40°-50°	740.0	14.5
50°-60°	963.6	18.8
60°-70°	1184.2	23.1
70°-80°	928.3	18.1
80°-90°	112.3	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°	5116.0	100.0
0°-180°	5116.0	100.0

Coefficient of Utilization



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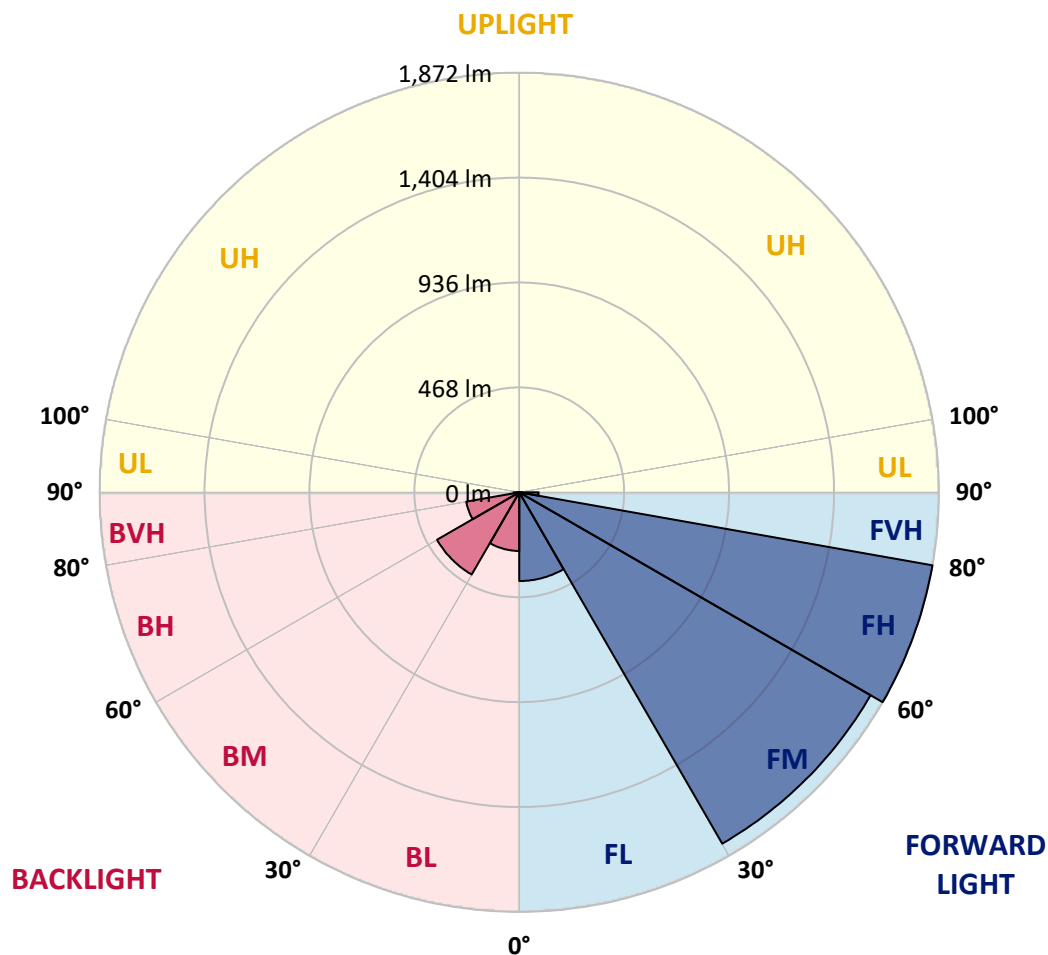
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.8	7.7			
FM	(30°-60°)	1810.1	35.4			
FH	(60°-80°)	1872.3	36.6			G2/5000
FVH	(80°-90°)	86.8	1.7			G1/100
BL	(0°-30°)	261.6	5.1	B1/500		
BM	(30°-60°)	423.6	8.3	B1/1000		
BH	(60°-80°)	240.1	4.7	B1/500		G1/500
BVH	(80°-90°)	25.5	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°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	873.0	870.9	873.5	877.1	881.1	886.5	889.6	890.9	896.3	898.4	902.9
5°	832.5	831.5	835.8	842.0	850.9	863.3	873.3	875.2	889.4	899.4	908.6
7.5°	803.2	803.2	808.2	815.6	825.5	842.2	856.4	859.0	883.0	904.6	921.5
10°	779.8	780.7	786.6	795.4	807.0	824.8	843.6	846.5	881.3	916.7	943.7
12.5°	764.3	766.4	771.7	779.7	794.0	815.6	839.5	843.4	884.9	934.0	970.3
15°	774.1	777.6	778.1	781.4	789.3	812.8	841.9	846.0	892.7	951.6	1000.5
17.5°	817.3	818.5	813.2	806.3	802.5	817.5	849.1	853.5	902.0	969.1	1029.5
20°	883.0	882.3	870.7	852.1	832.7	835.1	861.1	865.5	914.6	984.4	1058.6
22.5°	965.9	963.5	945.7	911.3	878.3	864.5	882.0	885.8	933.6	1006.4	1089.7
25°	1066.5	1061.2	1037.7	991.5	943.0	907.4	913.4	917.0	961.3	1030.9	1118.2
27.5°	1172.6	1167.3	1137.4	1081.5	1016.9	961.4	956.8	959.9	992.7	1049.1	1139.3
30°	1283.5	1277.8	1250.5	1188.0	1095.4	1017.4	997.2	998.4	1014.8	1058.9	1156.5
32.5°	1395.0	1389.6	1359.1	1286.5	1180.6	1077.6	1026.4	1024.9	1028.1	1069.1	1176.1
35°	1508.0	1510.1	1474.3	1394.0	1274.9	1144.4	1061.0	1057.7	1050.4	1090.0	1203.7
37.5°	1629.0	1627.6	1581.3	1497.3	1373.6	1217.0	1110.6	1110.1	1085.0	1129.6	1247.1
40°	1709.8	1710.7	1682.5	1603.0	1473.3	1297.4	1174.2	1173.0	1140.1	1188.9	1303.9
42.5°	1741.5	1747.2	1754.4	1704.0	1577.6	1390.5	1250.0	1248.3	1217.0	1273.9	1370.8
45°	1743.7	1755.1	1800.0	1793.6	1683.4	1497.1	1347.0	1342.1	1319.7	1386.9	1450.6
47.5°	1724.4	1736.1	1810.8	1847.0	1777.9	1609.6	1460.3	1456.5	1437.2	1528.2	1537.0
50°	1682.0	1693.2	1788.6	1873.1	1855.7	1717.8	1591.0	1580.9	1570.6	1691.5	1635.9
52.5°	1602.7	1624.3	1759.1	1879.4	1902.2	1813.9	1728.3	1721.8	1727.5	1863.8	1734.9
55°	1414.9	1439.1	1682.9	1874.2	1936.5	1894.6	1865.7	1865.4	1894.9	2044.5	1841.2
57.5°	1309.6	1326.7	1527.7	1865.4	1977.3	1974.7	2001.7	2005.0	2062.5	2241.4	1952.4
60°	1250.2	1268.2	1449.1	1832.7	2040.6	2078.4	2140.5	2147.0	2232.9	2459.3	2086.4
62.5°	1196.1	1215.8	1400.4	1766.2	2115.1	2226.7	2306.7	2312.6	2413.3	2683.2	2215.8
65°	1103.7	1126.0	1329.0	1722.5	2182.8	2420.0	2518.0	2522.0	2620.5	2917.9	2314.8
67.5°	973.0	993.4	1194.4	1625.9	2232.9	2654.9	2799.0	2801.2	2825.9	3083.6	2365.4
70°	820.4	828.2	1002.6	1426.4	2173.6	2874.5	3106.9	3107.4	3013.3	3189.7	2357.1
72.5°	576.5	594.8	727.8	1079.8	1867.9	2847.7	3266.8	3272.6	3100.3	3136.1	2168.8
75°	353.5	372.9	456.5	654.4	1185.1	2239.6	3018.3	3059.0	2937.1	2796.2	1771.7
77.5°	236.4	243.6	297.9	381.5	536.9	1288.6	2320.5	2397.2	2439.9	2039.2	1133.0
80°	131.8	145.7	197.5	237.1	238.8	512.0	1391.4	1409.3	1357.5	812.0	349.6
82.5°	69.8	77.4	131.8	139.3	130.3	171.4	518.6	519.1	433.7	217.7	103.9
85°	54.1	60.5	90.4	85.0	66.5	76.0	171.1	180.4	147.6	89.2	33.9
87.5°	27.0	33.5	61.3	53.9	26.1	21.8	61.2	65.3	58.2	34.9	12.3
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°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	904.6	906.2	908.1	906.0	905.3	902.5	897.9	896.8	894.4	894.6	896.0
5°	912.5	915.1	914.1	906.2	896.6	883.3	869.5	857.8	850.0	849.5	849.0
7.5°	927.8	929.5	921.4	898.7	872.1	841.4	812.3	786.9	771.5	767.7	766.9
10°	951.6	951.3	929.0	883.3	830.3	775.3	728.7	693.4	672.9	666.8	665.3
12.5°	978.2	974.2	931.6	855.4	771.2	695.0	635.9	596.7	575.2	568.3	566.6
15°	1005.7	995.8	925.2	813.5	698.6	608.4	546.4	510.1	498.5	494.7	494.0
17.5°	1031.3	1012.3	906.8	756.9	615.9	522.2	473.8	459.3	462.1	467.1	467.2
20°	1056.3	1023.3	877.5	685.3	528.6	451.2	434.8	445.5	458.6	468.8	470.2
22.5°	1081.0	1031.1	839.6	602.7	450.5	411.3	422.8	442.4	457.4	468.5	470.4
25°	1101.8	1033.0	787.4	514.6	396.2	396.2	417.1	435.6	450.5	461.4	463.3
27.5°	1109.4	1020.2	713.8	433.0	368.9	389.3	409.2	424.6	437.2	448.8	450.8
30°	1112.3	996.5	628.8	367.5	357.7	381.9	398.5	411.6	423.5	434.4	436.3
32.5°	1112.8	968.0	538.6	330.4	349.9	374.1	385.2	396.7	409.5	413.9	414.5
35°	1116.1	934.3	443.6	311.4	342.7	366.9	375.7	384.0	363.2	364.8	366.2
37.5°	1125.6	901.0	364.1	300.7	338.0	363.0	373.6	343.5	327.3	323.5	323.0
40°	1143.4	865.4	305.2	292.0	336.3	364.9	360.3	320.7	292.7	271.8	268.7
42.5°	1168.1	827.0	267.5	286.3	337.5	374.1	341.8	298.8	252.3	238.8	237.1
45°	1195.9	786.8	247.1	282.4	341.6	381.2	338.0	269.6	233.5	223.3	222.4
47.5°	1222.9	737.5	236.6	280.6	347.3	375.5	321.9	260.6	224.5	219.1	219.6
50°	1253.8	693.1	230.2	278.7	352.3	371.9	303.8	255.9	221.0	227.6	234.5
52.5°	1279.9	647.1	224.5	274.9	354.2	365.5	299.1	256.8	221.0	233.6	240.2
55°	1310.8	612.4	217.9	267.0	350.6	347.3	295.8	262.0	223.6	215.7	216.3
57.5°	1350.8	601.0	210.6	254.5	338.5	320.9	294.3	267.0	222.0	217.0	218.8
60°	1406.1	613.1	207.7	238.3	319.7	300.2	294.4	264.4	211.2	202.5	202.7
62.5°	1458.8	626.6	207.5	228.1	296.5	281.7	290.5	255.9	205.6	200.6	202.5
65°	1476.0	612.9	199.2	216.7	270.4	259.5	283.2	246.9	201.5	193.9	193.5
67.5°	1452.9	570.6	182.5	198.2	240.5	233.8	273.7	236.2	194.9	188.7	187.7
70°	1384.1	476.1	161.7	173.8	206.5	204.8	258.7	223.8	186.1	180.7	176.3
72.5°	1199.0	339.2	136.3	144.6	168.1	173.7	237.9	207.5	173.7	162.1	155.2
75°	984.8	251.1	112.0	113.7	127.7	142.7	209.4	188.5	159.0	139.3	133.9
77.5°	603.1	153.6	89.2	89.9	91.6	113.9	172.5	167.3	140.3	116.1	112.3
80°	195.3	83.8	64.5	67.7	62.6	83.5	133.4	142.4	120.4	97.1	93.0
82.5°	74.3	48.9	43.5	45.8	43.4	56.0	97.3	114.0	98.7	79.8	65.0
85°	35.9	27.6	25.7	28.9	26.8	28.7	62.2	84.0	74.8	52.0	48.4
87.5°	12.8	12.3	9.8	13.3	11.4	10.2	19.0	42.3	49.4	35.8	32.0
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)