

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: P318405

Luminaire Tested: **GAN-SA1C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7408 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

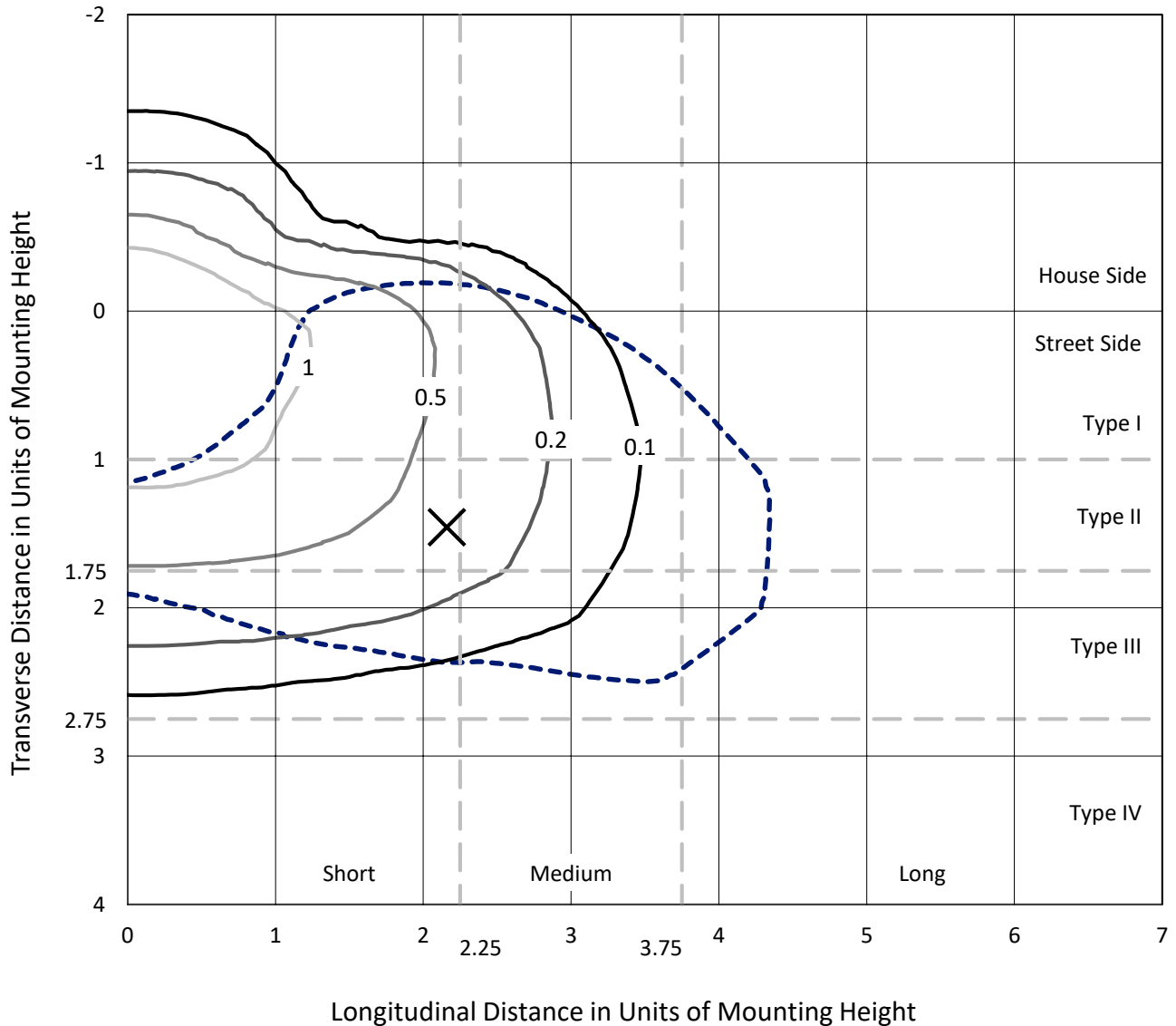




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Iso-Footcandle Lines of Horizontal Illumination

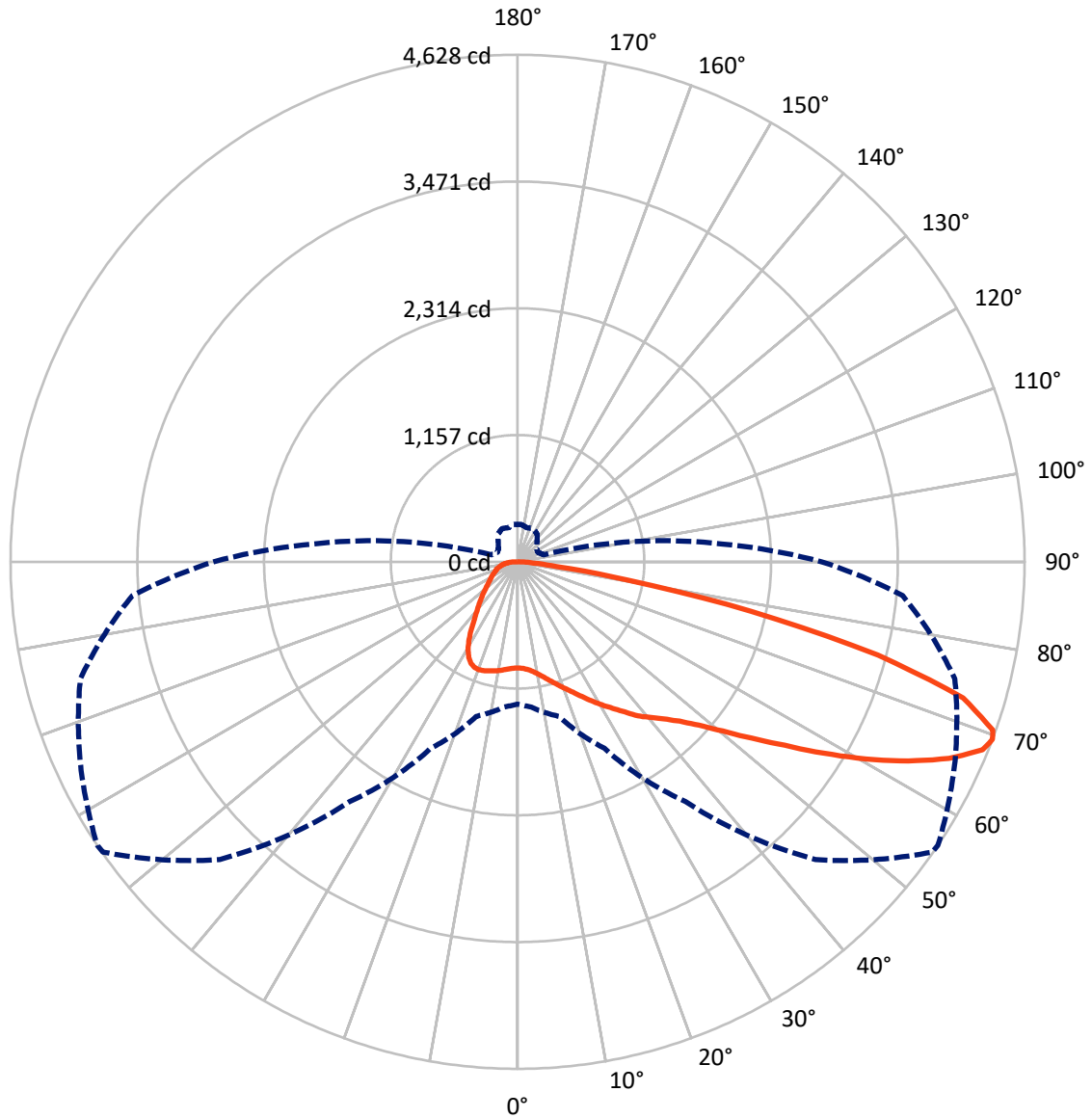
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1649.7	0.0	1649.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5758.2	0.0	5758.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	7408.0	0.0	7408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.3
10°-20°	305.9	4.1
20°-30°	533.9	7.2
30°-40°	767.0	10.4
40°-50°	1061.4	14.3
50°-60°	1555.2	21.0
60°-70°	1896.0	25.6
70°-80°	1048.3	14.2
80°-90°	145.2	2.0
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°	7408.0	100.0
0°-180°	7408.0	100.0

Coefficient of Utilization

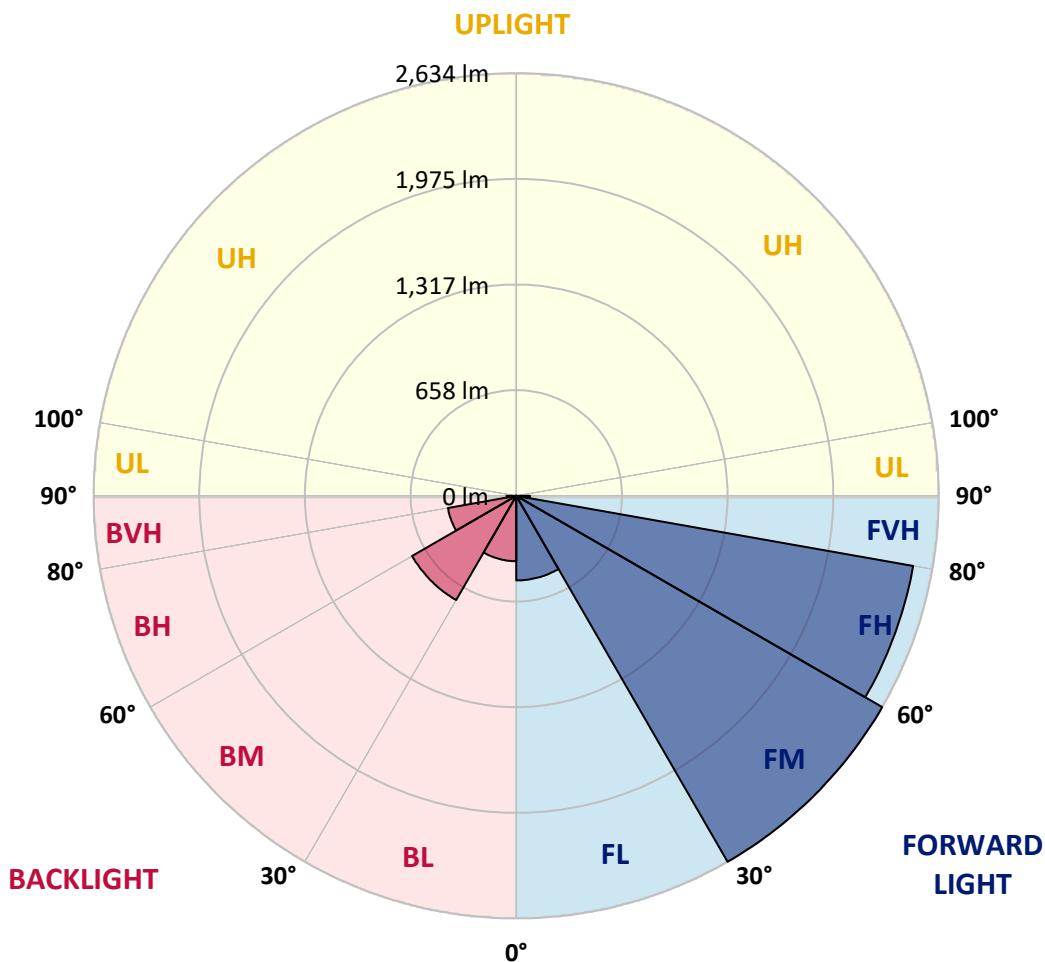


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.2	7.1			
FM (30°-60°)	2633.8	35.6			
FH (60°-80°)	2511.7	33.9			G2/5000
FVH (80°-90°)	85.5	1.2			G1/100
BL (0°-30°)	407.7	5.5	B1/500		
BM (30°-60°)	749.8	10.1	B1/1000		
BH (60°-80°)	432.6	5.8	B1/500		G1/500
BVH (80°-90°)	59.7	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5
2.5°	974.6	975.6	974.9	976.9	974.6	976.1	974.9	974.9	974.1	971.8	969.3
5°	989.9	992.0	990.7	992.7	989.9	990.4	988.1	988.1	985.8	981.0	975.9
7.5°	1013.9	1016.2	1015.2	1017.2	1013.4	1013.4	1010.3	1010.1	1005.5	997.6	991.7
10°	1042.5	1045.6	1044.5	1047.6	1044.5	1045.6	1042.5	1042.5	1036.4	1025.1	1017.7
12.5°	1084.1	1087.9	1085.1	1084.9	1083.6	1085.6	1083.1	1082.6	1076.9	1061.6	1051.4
15°	1139.7	1143.8	1137.9	1137.4	1130.3	1129.5	1129.5	1128.8	1125.2	1106.8	1090.0
17.5°	1203.8	1205.1	1200.0	1191.8	1182.6	1176.7	1176.0	1178.0	1178.0	1156.6	1129.8
20°	1266.6	1268.9	1264.8	1255.6	1243.8	1235.2	1229.0	1233.1	1232.9	1207.4	1169.3
22.5°	1335.0	1340.3	1334.2	1322.4	1308.7	1299.0	1288.3	1291.8	1292.1	1260.7	1208.1
25°	1423.5	1418.7	1414.8	1398.2	1378.6	1368.6	1358.7	1362.3	1361.2	1318.1	1248.2
27.5°	1501.9	1502.9	1497.8	1480.2	1457.4	1435.5	1435.0	1437.3	1433.5	1377.8	1286.0
30°	1593.0	1593.5	1586.3	1570.5	1545.7	1517.4	1510.8	1514.6	1506.4	1434.5	1325.8
32.5°	1683.6	1686.1	1678.2	1659.1	1639.2	1604.7	1591.4	1594.0	1573.6	1492.4	1366.9
35°	1762.9	1766.5	1763.9	1751.2	1729.5	1699.9	1684.1	1682.5	1657.3	1563.4	1421.2
37.5°	1843.8	1847.1	1844.3	1833.6	1824.9	1793.5	1785.1	1785.1	1741.2	1635.8	1490.4
40°	1927.0	1932.1	1928.8	1914.0	1906.6	1892.3	1872.1	1867.3	1819.8	1722.9	1603.2
42.5°	2004.3	2011.0	2024.2	2015.6	2000.5	2002.6	1962.0	1959.4	1924.7	1851.5	1744.8
45°	2114.1	2123.8	2146.2	2139.6	2136.5	2125.3	2077.1	2074.8	2061.5	2024.5	1920.6
47.5°	2233.8	2247.0	2287.6	2288.9	2321.8	2300.6	2235.0	2227.1	2230.2	2231.7	2135.3
50°	2344.0	2358.6	2425.2	2456.6	2534.1	2538.7	2433.8	2426.7	2438.7	2473.9	2385.4
52.5°	2432.1	2450.4	2533.6	2630.6	2763.6	2801.3	2678.6	2673.2	2682.2	2742.9	2668.1
55°	2496.6	2516.5	2607.1	2783.7	2996.0	3062.7	2960.3	2955.2	2960.8	3038.2	2975.6
57.5°	2511.7	2516.5	2648.0	2886.8	3192.3	3352.3	3305.1	3294.9	3267.3	3334.7	3315.0
60°	2441.0	2460.4	2614.3	2923.1	3344.1	3637.9	3665.4	3652.7	3575.4	3630.5	3614.7
62.5°	2297.6	2332.3	2488.5	2867.9	3403.6	3871.1	4018.9	4003.6	3870.4	3906.1	3830.0
65°	2063.3	2078.1	2242.2	2677.8	3328.1	4020.4	4334.1	4326.4	4158.7	4102.9	3869.9
67.5°	1644.3	1672.1	1811.4	2280.5	3019.0	4002.8	4577.8	4577.0	4347.1	4175.8	3728.7
69°	1299.0	1327.8	1460.5	1878.5	2671.4	3841.8	4618.6	4627.5	4400.2	4131.4	3527.1
70°	1035.6	1069.0	1160.1	1582.2	2362.9	3629.5	4584.7	4600.7	4390.0	4058.2	3341.1
72.5°	440.7	467.8	532.6	815.6	1440.1	2710.2	4191.9	4252.7	4153.4	3714.2	2761.3
75°	192.4	200.8	230.2	332.5	639.3	1475.1	3283.9	3396.2	3551.4	3139.5	2056.9
77.5°	140.9	144.4	160.5	195.2	286.8	557.1	2111.8	2177.1	2561.2	2284.6	1261.7
80°	109.0	111.5	124.0	143.4	187.3	225.3	963.1	1019.3	1440.1	1173.4	525.5
82.5°	86.8	88.6	97.2	105.7	129.4	136.5	319.8	354.7	531.6	324.1	139.1
85°	80.6	82.7	85.7	77.1	82.9	80.1	138.3	144.7	160.5	127.3	58.2
87.5°	36.5	43.1	85.0	60.0	44.1	35.2	56.7	59.2	66.6	66.9	25.8
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°	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5
2.5°	970.8	970.0	971.3	968.2	972.1	971.8	970.5	971.0	973.6	973.3	973.6
5°	976.7	976.1	977.7	975.4	980.0	981.5	981.8	984.1	986.9	987.6	987.6
7.5°	991.5	991.5	992.2	989.2	992.2	992.0	990.7	993.0	995.8	996.0	995.8
10°	1017.0	1017.2	1016.0	1008.0	1005.5	998.6	992.2	992.5	996.0	998.9	999.6
12.5°	1049.1	1048.1	1042.5	1027.9	1017.2	1003.2	996.6	996.3	999.9	1002.2	1002.9
15°	1085.9	1083.1	1068.5	1044.8	1025.9	1012.1	1001.4	998.9	996.8	994.3	994.5
17.5°	1120.6	1114.2	1090.0	1057.0	1037.1	1018.8	998.1	981.5	970.0	963.4	961.3
20°	1155.8	1143.3	1108.3	1068.5	1043.3	1009.8	970.0	936.3	915.4	905.7	903.9
22.5°	1188.0	1167.8	1125.4	1080.5	1038.4	979.7	917.2	868.2	839.1	826.1	827.1
25°	1219.3	1191.3	1143.3	1088.9	1013.9	926.6	843.7	783.5	749.8	735.2	734.7
27.5°	1246.9	1215.0	1162.7	1082.0	968.2	851.1	756.7	698.0	669.9	657.4	655.4
30°	1278.6	1244.9	1188.5	1055.8	901.4	763.8	671.7	630.3	610.4	597.9	595.6
32.5°	1317.1	1285.4	1209.6	1008.0	815.9	672.7	605.3	576.5	558.4	544.3	541.8
35°	1373.2	1339.0	1215.0	939.6	722.0	600.7	556.6	527.0	502.5	484.4	482.6
37.5°	1443.7	1406.2	1202.8	851.1	630.9	554.0	516.0	479.5	447.6	422.1	418.0
40°	1545.2	1488.6	1168.8	749.0	563.7	518.1	476.5	434.9	395.3	365.4	359.6
42.5°	1667.2	1585.3	1116.8	647.4	514.5	481.6	437.2	385.6	347.8	326.7	323.6
45°	1822.4	1685.9	1044.5	558.6	466.0	445.1	394.8	347.3	323.8	308.3	305.7
47.5°	1999.5	1798.7	968.7	486.4	424.9	410.9	360.9	330.2	311.6	299.3	297.1
50°	2217.2	1926.0	888.4	427.2	383.6	369.8	344.8	320.8	306.0	296.5	294.2
52.5°	2462.7	2069.7	830.4	380.5	349.4	339.4	336.4	315.7	303.7	296.5	294.2
55°	2727.1	2215.9	767.9	341.2	319.8	322.6	330.7	316.2	308.0	299.3	296.0
57.5°	2991.7	2367.0	698.2	308.0	296.3	310.1	326.9	317.2	310.3	301.9	298.8
60°	3201.0	2462.7	590.3	280.2	277.7	296.3	317.7	309.6	300.6	300.9	300.4
62.5°	3298.7	2457.6	471.1	255.5	259.0	277.7	302.9	297.6	290.2	300.1	300.9
65°	3243.8	2335.1	366.7	233.0	239.1	258.3	287.6	291.7	294.2	313.4	315.9
67.5°	3013.7	2096.7	284.0	213.3	221.0	245.0	289.1	317.7	321.0	341.2	340.9
69°	2775.6	1873.2	246.8	203.1	212.1	248.3	309.0	334.3	321.8	343.2	340.2
70°	2576.0	1696.3	226.9	196.2	208.0	254.2	322.3	334.1	318.0	336.4	331.2
72.5°	1983.9	1220.4	192.4	183.5	194.2	243.2	326.1	326.7	309.0	312.6	303.9
75°	1360.7	771.2	167.9	166.1	173.3	219.2	313.9	312.1	285.8	280.7	273.6
77.5°	750.3	391.7	142.7	149.5	154.4	194.2	285.3	282.8	261.1	250.4	247.8
80°	289.4	171.5	120.5	133.0	136.0	168.2	250.1	247.8	229.7	215.9	212.1
82.5°	109.2	89.8	99.5	115.1	114.1	138.8	211.8	210.5	192.9	172.8	166.6
85°	50.5	53.8	78.9	94.9	87.5	102.8	169.5	171.7	150.3	126.3	126.3
87.5°	21.4	30.1	55.9	71.7	59.0	69.4	124.3	118.7	109.0	75.5	70.9
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)