

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: P318375

Luminaire Tested: **GAN-SA1D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318375
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-SA1D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7399 lumens
Efficiency: N/A
Efficacy: 110.4 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

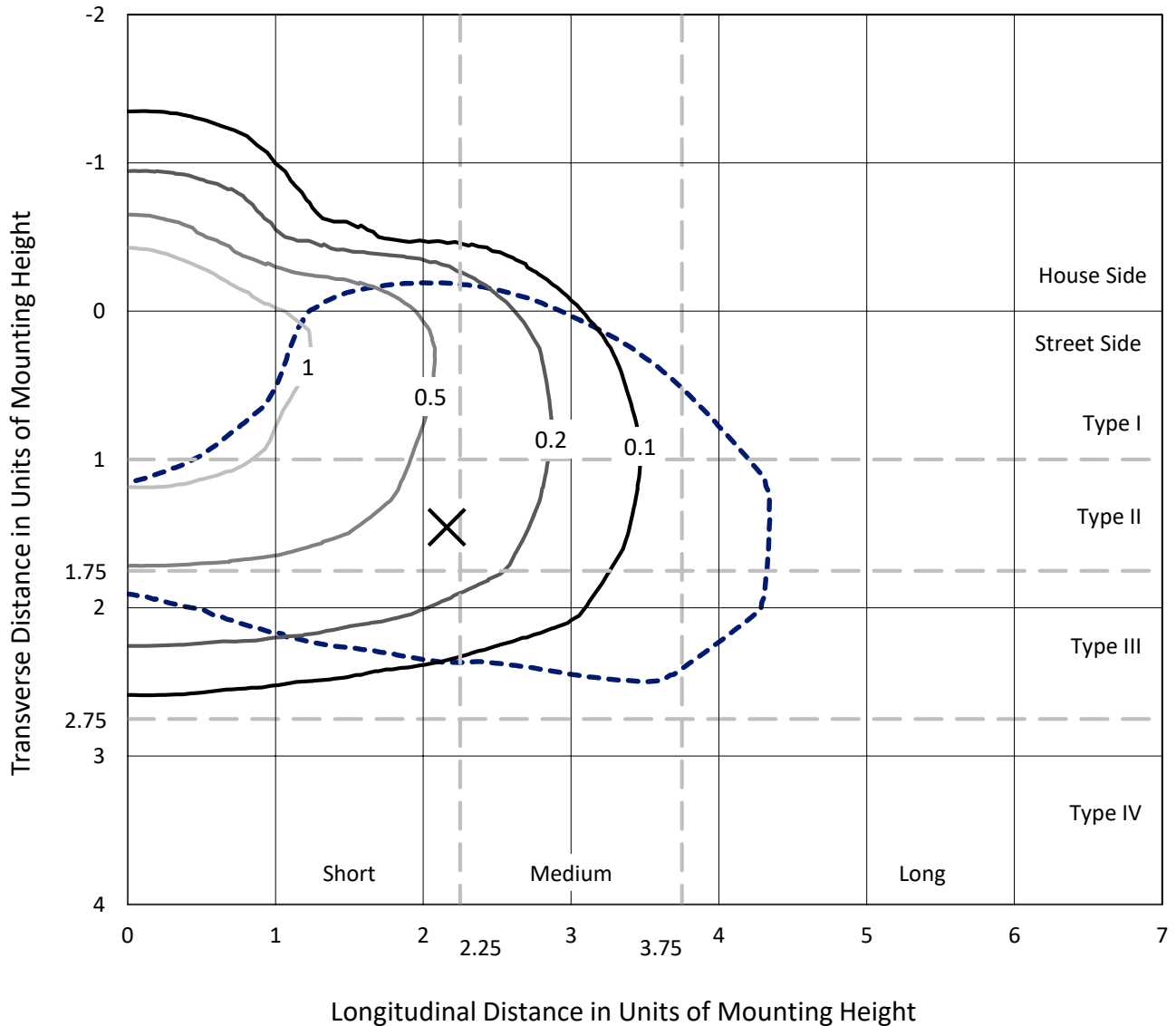
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

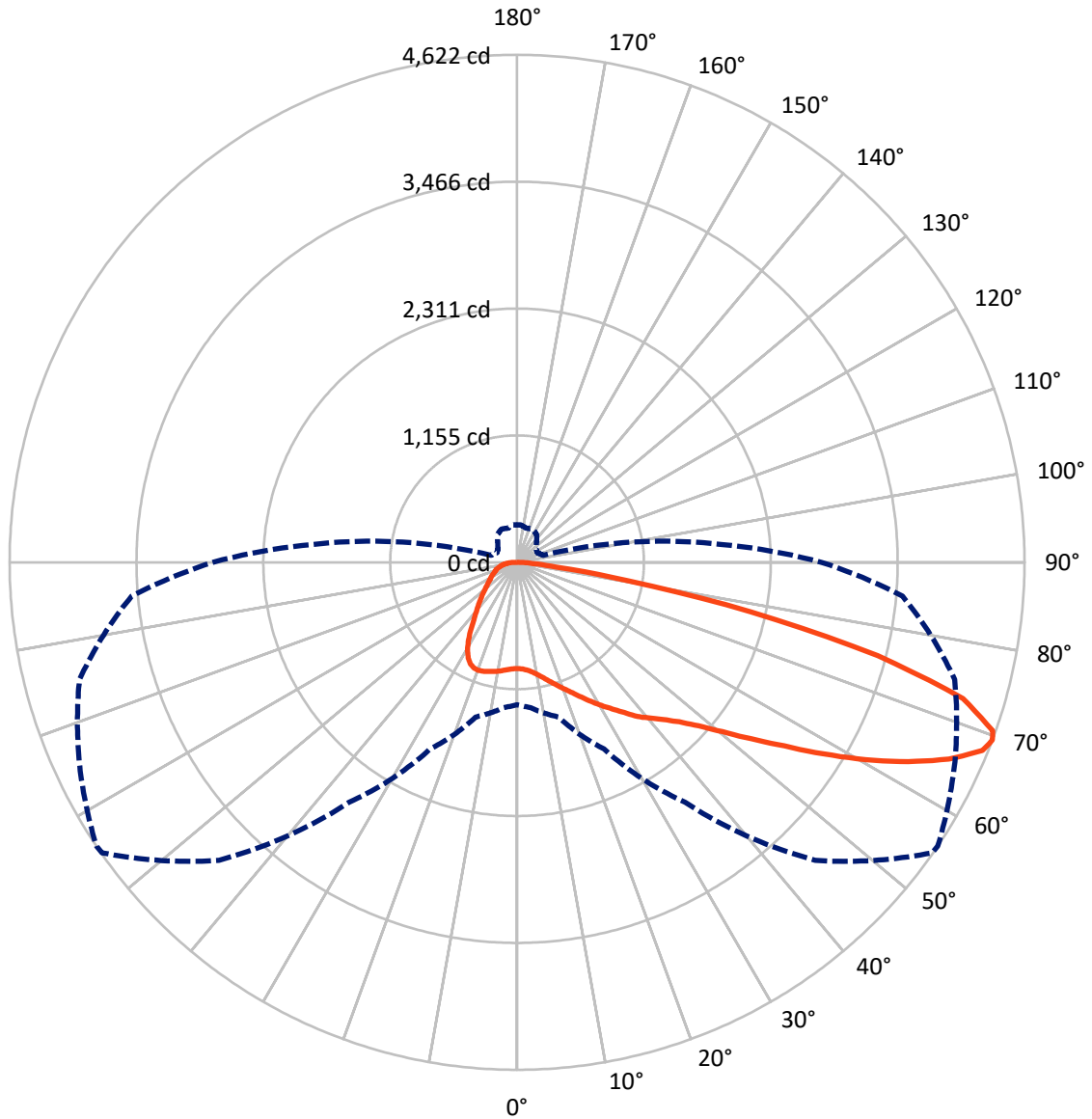
× Max cd
 - - - 1/2 Max cd



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	1647.7	0.0	1647.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5751.3	0.0	5751.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	7399.0	0.0	7399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.3
10°-20°	305.5	4.1
20°-30°	533.3	7.2
30°-40°	766.0	10.4
40°-50°	1060.2	14.3
50°-60°	1553.3	21.0
60°-70°	1893.7	25.6
70°-80°	1047.0	14.2
80°-90°	145.0	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°	7399.0	100.0
0°-180°	7399.0	100.0

Coefficient of Utilization



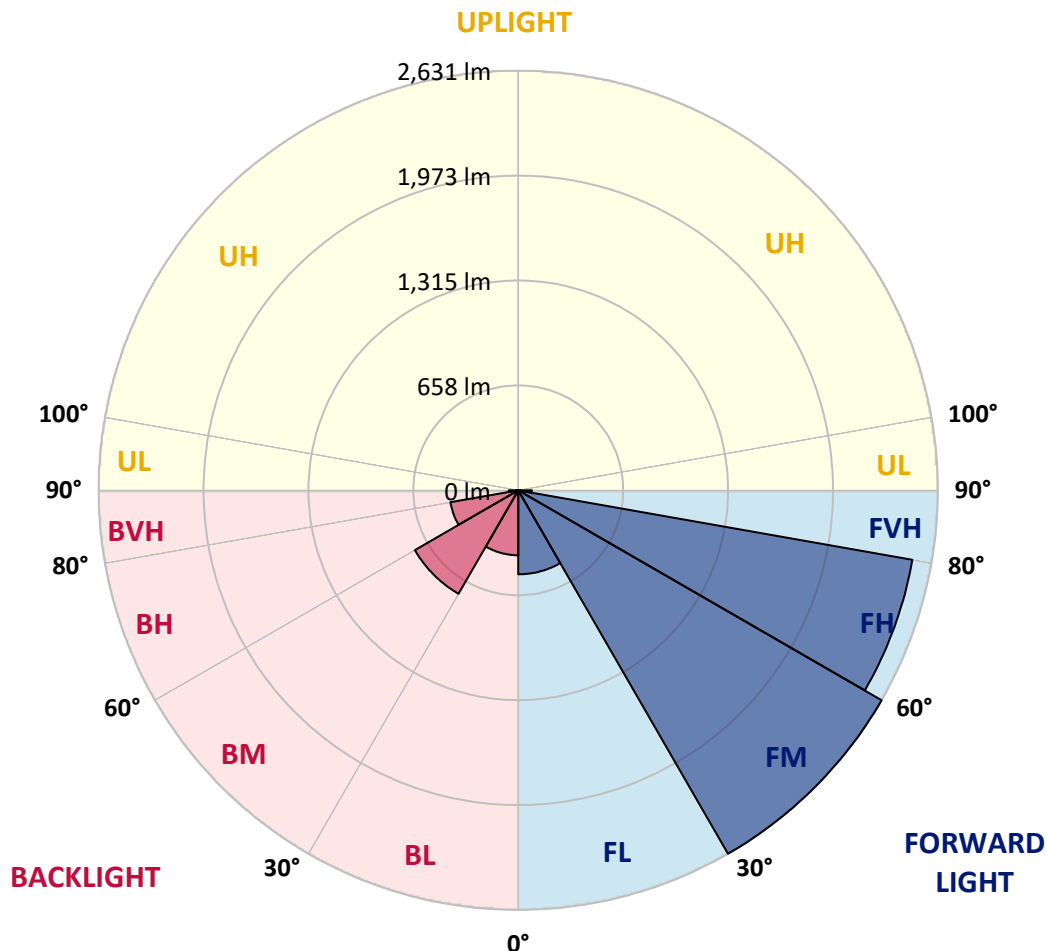
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.6	7.1			
FM (30°-60°)	2630.6	35.6			
FH (60°-80°)	2508.6	33.9			G2/5000
FVH (80°-90°)	85.4	1.2			G1/100
BL (0°-30°)	407.2	5.5	B1/500		
BM (30°-60°)	748.9	10.1	B1/1000		
BH (60°-80°)	432.1	5.8	B1/500		G1/500
BVH (80°-90°)	59.6	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°	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3
2.5°	973.4	974.4	973.7	975.7	973.4	975.0	973.7	973.7	972.9	970.6	968.1
5°	988.7	990.8	989.5	991.5	988.7	989.2	986.9	986.9	984.6	979.8	974.7
7.5°	1012.7	1015.0	1014.0	1016.0	1012.2	1012.2	1009.1	1008.9	1004.3	996.4	990.5
10°	1041.2	1044.3	1043.3	1046.3	1043.3	1044.3	1041.2	1041.2	1035.1	1023.9	1016.5
12.5°	1082.8	1086.6	1083.8	1083.5	1082.3	1084.3	1081.8	1081.2	1075.6	1060.3	1050.1
15°	1138.3	1142.4	1136.6	1136.0	1128.9	1128.1	1128.1	1127.4	1123.8	1105.5	1088.6
17.5°	1202.3	1203.6	1198.5	1190.3	1181.2	1175.3	1174.5	1176.6	1176.6	1155.2	1128.4
20°	1265.0	1267.3	1263.2	1254.1	1242.3	1233.7	1227.6	1231.6	1231.4	1205.9	1167.9
22.5°	1333.3	1338.7	1332.6	1320.8	1307.1	1297.4	1286.7	1290.3	1290.5	1259.2	1206.6
25°	1421.8	1416.9	1413.1	1396.5	1376.9	1367.0	1357.0	1360.6	1359.6	1316.5	1246.7
27.5°	1500.0	1501.0	1495.9	1478.4	1455.7	1433.8	1433.2	1435.5	1431.7	1376.2	1284.4
30°	1591.0	1591.5	1584.4	1568.6	1543.9	1515.6	1508.9	1512.8	1504.6	1432.7	1324.2
32.5°	1681.5	1684.1	1676.2	1657.0	1637.2	1602.7	1589.5	1592.0	1571.7	1490.6	1365.2
35°	1760.8	1764.3	1761.8	1749.1	1727.4	1697.8	1682.0	1680.5	1655.3	1561.5	1419.5
37.5°	1841.6	1844.9	1842.1	1831.4	1822.7	1791.4	1783.0	1783.0	1739.1	1633.8	1488.6
40°	1924.7	1929.8	1926.5	1911.7	1904.3	1890.0	1869.9	1865.0	1817.6	1720.8	1601.2
42.5°	2001.9	2008.5	2021.8	2013.1	1998.1	2000.1	1959.6	1957.0	1922.4	1849.2	1742.7
45°	2111.5	2121.2	2143.6	2137.0	2133.9	2122.7	2074.6	2072.3	2059.0	2022.0	1918.3
47.5°	2231.1	2244.3	2284.8	2286.1	2319.0	2297.8	2232.3	2224.4	2227.5	2229.0	2132.7
50°	2341.2	2355.7	2422.2	2453.6	2531.1	2535.6	2430.9	2423.7	2435.7	2470.9	2382.5
52.5°	2429.1	2447.5	2530.5	2627.4	2760.2	2797.9	2675.3	2670.0	2678.9	2739.6	2664.9
55°	2493.6	2513.5	2604.0	2780.3	2992.4	3058.9	2956.7	2951.6	2957.2	3034.5	2972.0
57.5°	2508.6	2513.5	2644.7	2883.3	3188.4	3348.2	3301.1	3290.9	3263.4	3330.6	3311.0
60°	2438.0	2457.4	2611.1	2919.5	3340.1	3633.5	3661.0	3648.2	3571.0	3626.1	3610.3
62.5°	2294.8	2329.4	2485.4	2864.5	3399.5	3866.4	4014.0	3998.7	3865.7	3901.3	3825.4
65°	2060.8	2075.6	2239.5	2674.6	3324.0	4015.5	4328.8	4321.2	4153.7	4097.9	3865.2
67.5°	1642.3	1670.0	1809.2	2277.7	3015.3	3998.0	4572.2	4571.5	4341.8	4170.8	3724.2
69°	1297.4	1326.2	1458.7	1876.2	2668.2	3837.1	4613.0	4621.9	4394.8	4126.4	3522.8
70°	1034.3	1067.7	1158.7	1580.3	2360.0	3625.0	4579.1	4595.2	4384.6	4053.3	3337.0
72.5°	440.2	467.2	532.0	814.6	1438.3	2706.9	4186.8	4247.5	4148.3	3709.7	2757.9
75°	192.2	200.6	229.9	332.1	638.5	1473.3	3279.9	3392.1	3547.1	3135.7	2054.4
77.5°	140.7	144.3	160.3	195.0	286.5	556.4	2109.2	2174.5	2558.1	2281.8	1260.2
80°	108.8	111.4	123.9	143.2	187.1	225.1	962.0	1018.0	1438.3	1172.0	524.8
82.5°	86.7	88.4	97.1	105.5	129.2	136.4	319.4	354.3	530.9	323.7	138.9
85°	80.5	82.6	85.6	77.0	82.8	80.0	138.2	144.5	160.3	127.2	58.1
87.5°	36.4	43.1	84.9	59.9	44.1	35.2	56.6	59.1	66.5	66.8	25.7
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°	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3
2.5°	969.6	968.8	970.1	967.1	970.9	970.6	969.3	969.9	972.4	972.2	972.4
5°	975.5	975.0	976.5	974.2	978.8	980.3	980.6	982.9	985.7	986.4	986.4
7.5°	990.2	990.2	991.0	988.0	991.0	990.8	989.5	991.8	994.6	994.8	994.6
10°	1015.7	1016.0	1014.7	1006.8	1004.3	997.4	991.0	991.3	994.8	997.6	998.4
12.5°	1047.9	1046.8	1041.2	1026.7	1016.0	1002.0	995.3	995.1	998.7	1001.0	1001.7
15°	1084.6	1081.8	1067.2	1043.5	1024.7	1010.9	1000.2	997.6	995.6	993.1	993.3
17.5°	1119.2	1112.9	1088.6	1055.8	1035.9	1017.5	996.9	980.3	968.8	962.2	960.2
20°	1154.4	1141.9	1107.0	1067.2	1042.0	1008.6	968.8	935.2	914.3	904.6	902.8
22.5°	1186.5	1166.4	1124.1	1079.2	1037.1	978.5	916.1	867.1	838.1	825.1	826.1
25°	1217.9	1189.8	1141.9	1087.6	1012.7	925.5	842.7	782.5	748.9	734.3	733.8
27.5°	1245.4	1213.5	1161.3	1080.7	967.1	850.1	755.7	697.1	669.1	656.6	654.6
30°	1277.0	1243.4	1187.0	1054.5	900.3	762.9	670.9	629.6	609.7	597.2	594.9
32.5°	1315.5	1283.9	1208.2	1006.8	814.9	671.9	604.6	575.8	557.7	543.7	541.1
35°	1371.6	1337.4	1213.5	938.5	721.1	600.0	555.9	526.3	501.9	483.8	482.0
37.5°	1441.9	1404.4	1201.3	850.1	630.1	553.4	515.4	478.9	447.1	421.6	417.5
40°	1543.4	1486.8	1167.4	748.1	563.1	517.4	475.9	434.3	394.8	365.0	359.1
42.5°	1665.2	1583.4	1115.4	646.7	513.9	481.0	436.6	385.1	347.4	326.3	323.2
45°	1820.2	1683.8	1043.3	558.0	465.4	444.5	394.3	346.9	323.5	307.9	305.4
47.5°	1997.1	1796.5	967.6	485.8	424.4	410.4	360.4	329.8	311.2	299.0	296.7
50°	2214.5	1923.7	887.3	426.7	383.1	369.3	344.4	320.4	305.6	296.2	293.9
52.5°	2459.7	2067.2	829.4	380.0	348.9	339.0	335.9	315.3	303.3	296.2	293.9
55°	2723.8	2213.2	767.0	340.8	319.4	322.2	330.3	315.8	307.7	299.0	295.7
57.5°	2988.1	2364.1	697.4	307.7	295.9	309.7	326.5	316.8	309.9	301.5	298.5
60°	3197.1	2459.7	589.6	279.9	277.3	295.9	317.3	309.2	300.3	300.5	300.0
62.5°	3294.7	2454.6	470.5	255.1	258.7	277.3	302.6	297.2	289.8	299.8	300.5
65°	3239.9	2332.2	366.3	232.7	238.8	257.9	287.3	291.3	293.9	313.0	315.6
67.5°	3010.0	2094.2	283.7	213.1	220.7	244.7	288.8	317.3	320.7	340.8	340.5
69°	2772.2	1870.9	246.5	202.9	211.8	248.0	308.7	333.9	321.4	342.8	339.8
70°	2572.9	1694.3	226.6	196.0	207.7	253.9	321.9	333.7	317.6	335.9	330.8
72.5°	1981.5	1218.9	192.2	183.3	194.0	242.9	325.7	326.3	308.7	312.2	303.6
75°	1359.1	770.3	167.7	165.9	173.1	219.0	313.5	311.7	285.5	280.4	273.2
77.5°	749.4	391.3	142.5	149.4	154.2	194.0	285.0	282.4	260.8	250.0	247.5
80°	289.0	171.3	120.3	132.8	135.9	168.0	249.8	247.5	229.4	215.6	211.8
82.5°	109.1	89.7	99.4	115.0	113.9	138.7	211.6	210.3	192.7	172.6	166.4
85°	50.5	53.8	78.8	94.8	87.4	102.7	169.2	171.5	150.1	126.2	126.2
87.5°	21.4	30.1	55.8	71.6	58.9	69.3	124.1	118.5	108.8	75.4	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)