

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: P452746

Luminaire Tested: **GLAN-SA3D-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19502 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

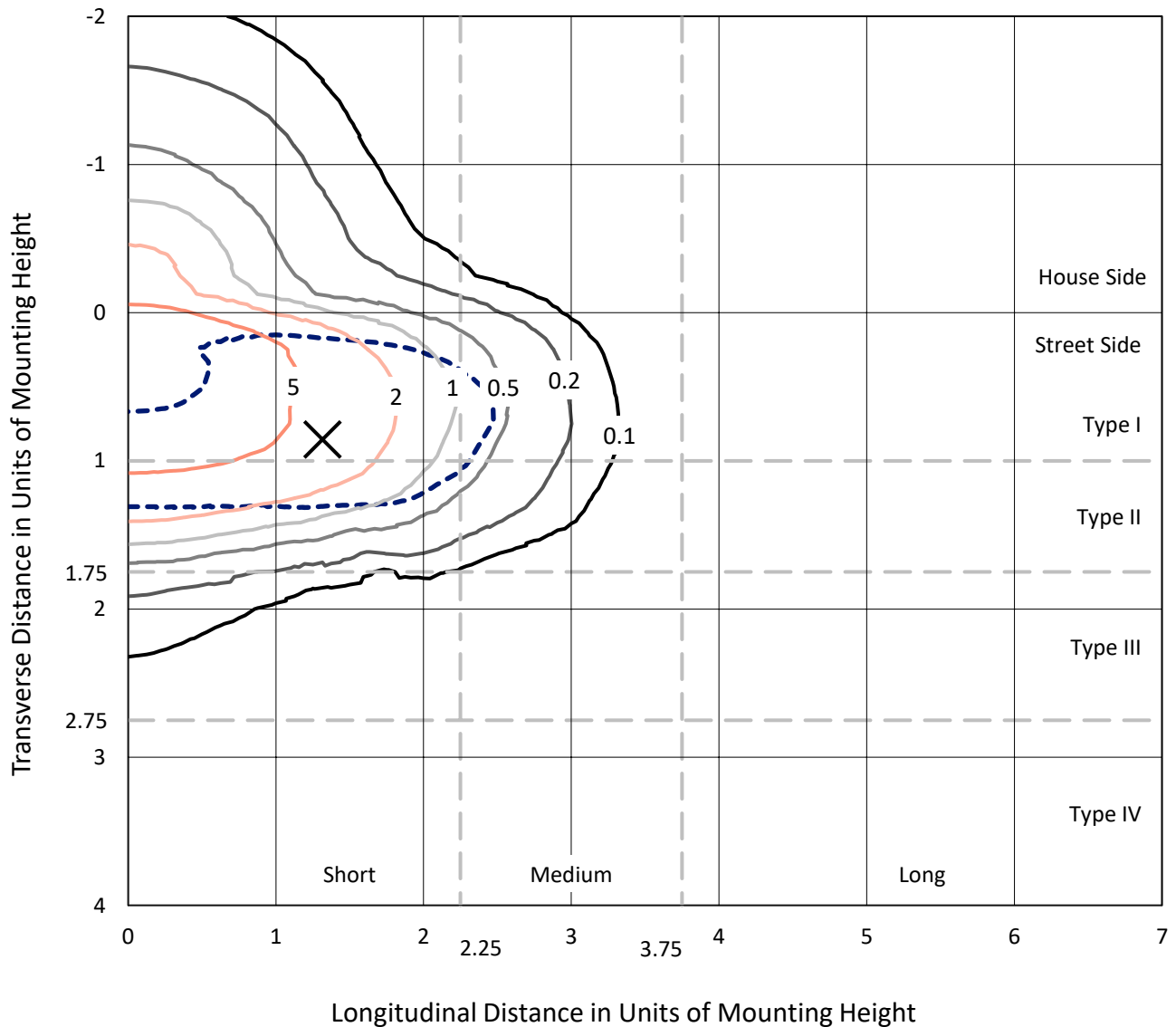
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452746  
 CATALOG NUMBER: GLAN-SA3D-727-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

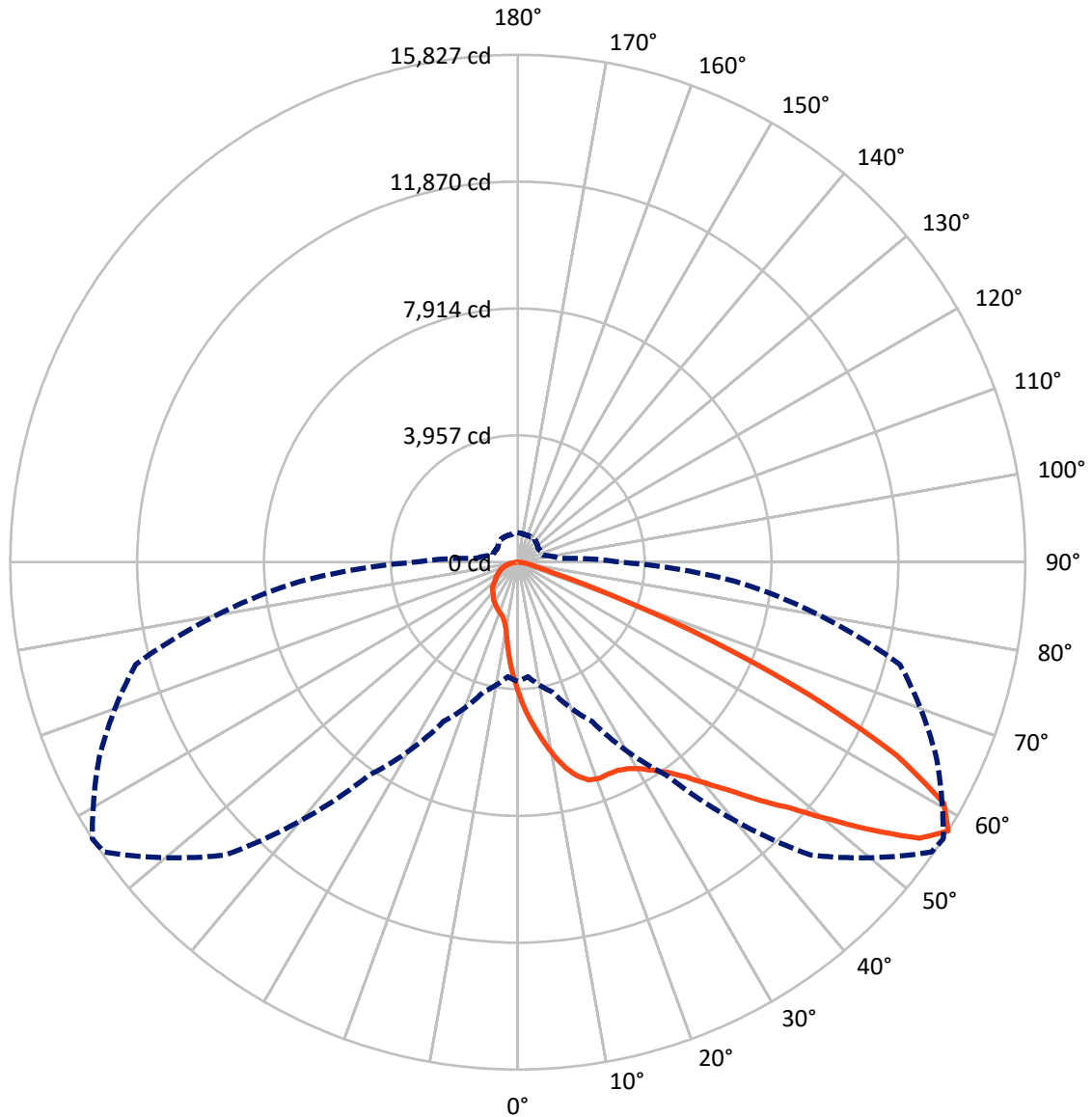
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P452746  
CATALOG NUMBER: GLAN-SA3D-727-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P452746

CATALOG NUMBER: GLAN-SA3D-727-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2965.7	0.0	2965.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	16536.3	0.0	16536.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	19502.0	0.0	19502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.8	2.0
10°-20°	1160.5	6.0
20°-30°	1927.0	9.9
30°-40°	2902.6	14.9
40°-50°	4358.0	22.3
50°-60°	4884.8	25.0
60°-70°	2858.8	14.7
70°-80°	845.6	4.3
80°-90°	170.9	0.9
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°	19502.0	100.0
0°-180°	19502.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452746

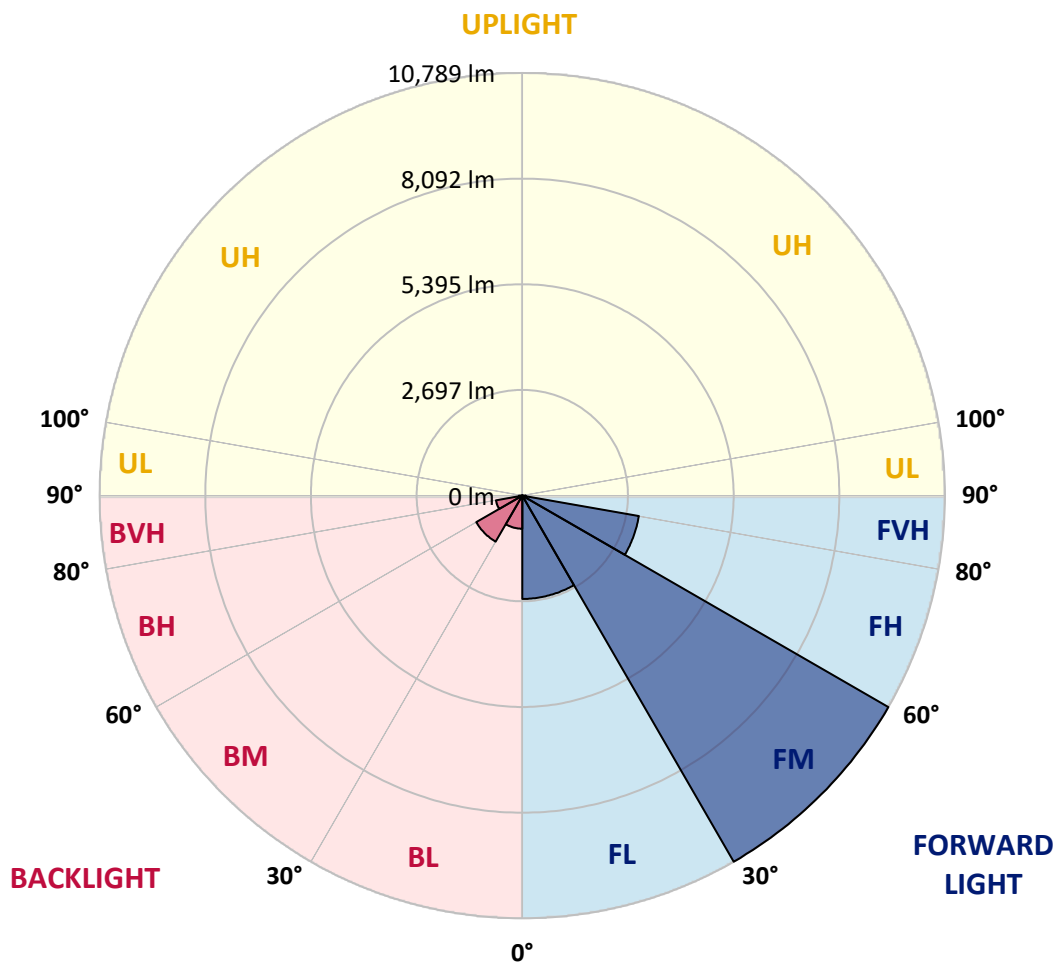
CATALOG NUMBER: GLAN-SA3D-727-U-AFL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2636.2	13.5			
FM	(30°-60°)	10789.4	55.3			
FH	(60°-80°)	3022.0	15.5			G2/5000
FVH	(80°-90°)	88.7	0.5			G1/100
BL	(0°-30°)	845.0	4.3	B2/1000		
BM	(30°-60°)	1356.0	7.0	B2/2500		
BH	(60°-80°)	682.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	82.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P452746

CATALOG NUMBER: GLAN-SA3D-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1
2.5°	5091.0	5035.5	4991.7	4953.3	4903.1	4767.6	4632.0	4629.8	4522.0	4355.5	4184.7
5°	5920.5	5845.7	5855.4	5735.8	5616.2	5419.8	5132.6	5117.7	4888.2	4576.5	4259.4
7.5°	6460.6	6461.7	6431.8	6363.5	6234.3	6011.2	5685.6	5612.0	5292.8	4819.9	4344.8
10°	6432.9	6461.7	6511.9	6570.6	6610.1	6500.1	6203.4	6113.7	5698.4	5114.5	4439.8
12.5°	6063.5	6108.4	6179.9	6327.2	6565.3	6746.7	6645.3	6572.7	6168.1	5408.1	4544.4
15°	5832.9	5859.6	5899.1	5998.4	6254.6	6689.1	6951.7	6913.3	6611.2	5740.1	4661.9
17.5°	5762.5	5789.2	5802.0	5862.8	6045.4	6490.5	7072.3	7140.7	7004.0	6045.4	4780.4
20°	5832.9	5845.7	5845.7	5882.0	6025.1	6374.2	7067.0	7204.7	7326.4	6411.5	4891.4
22.5°	6017.6	6023.0	6015.5	6028.3	6135.0	6406.2	7016.8	7187.6	7586.9	6722.2	4977.9
25°	6317.6	6326.1	6277.0	6247.1	6325.1	6547.1	7044.6	7201.5	7790.8	7019.0	5035.5
27.5°	6658.1	6668.8	6609.0	6539.6	6575.9	6721.1	7153.5	7294.4	7943.4	7311.5	5071.8
30°	7075.5	7079.8	6979.5	6896.2	6872.7	6980.5	7339.2	7470.5	8133.4	7656.3	5126.2
32.5°	7502.5	7534.6	7405.4	7288.0	7248.5	7281.6	7613.6	7740.6	8359.8	8026.7	5213.8
35°	8083.3	8088.6	7933.8	7790.8	7660.5	7703.2	7964.8	8056.6	8672.5	8454.8	5337.6
37.5°	8808.1	8857.2	8643.7	8376.8	8216.7	8154.8	8389.7	8490.0	9111.3	8980.0	5524.4
40°	9613.0	9631.2	9448.6	9282.1	8989.6	8810.3	8972.5	9081.4	9652.5	9606.6	5741.1
42.5°	10119.0	10158.5	10172.4	10155.3	9935.4	9634.4	9696.3	9747.5	10293.0	10194.8	5963.2
45°	10289.8	10348.6	10547.1	10967.7	10991.2	10694.4	10550.3	10599.4	10991.2	10788.4	6175.6
47.5°	10006.9	10107.3	10473.5	11336.0	11981.9	12004.3	11569.8	11462.0	11627.4	11280.5	6329.3
50°	9275.7	9297.0	9857.5	11106.5	12446.2	13256.5	12807.1	12606.4	12231.7	11644.5	6435.0
52.5°	8144.1	8168.7	8638.4	10040.0	12160.1	14131.8	14254.6	13895.9	12845.5	11927.4	6504.4
55°	6045.4	6187.4	6704.0	8058.7	10804.4	14049.6	15405.4	15201.5	13587.4	12151.6	6613.3
57.5°	3717.1	3586.9	4199.6	5482.8	8126.0	12920.2	15760.9	15827.1	14404.1	12339.5	6795.8
60°	1710.2	1735.8	1988.8	2827.9	4953.3	10107.3	14845.0	15263.4	14855.6	12333.1	6841.7
62.5°	1178.5	1155.1	1091.0	1241.5	2258.9	6392.3	12539.1	13247.9	13950.4	11949.8	6659.2
65°	1053.6	1030.2	906.3	864.7	1037.6	2786.2	9115.6	10010.1	11745.9	10982.7	6204.4
67.5°	984.3	952.2	824.1	743.0	740.9	1109.2	5375.0	6452.1	8712.0	9285.3	5376.0
70°	911.7	886.0	759.0	669.3	630.9	697.1	2362.4	3092.6	5656.8	6691.2	4187.9
72.5°	839.1	809.2	695.0	598.9	548.7	522.0	905.3	1177.5	3196.2	4011.7	2567.4
75°	733.4	718.4	621.3	542.3	487.9	421.7	574.3	655.5	1528.7	1842.5	1288.5
77.5°	641.6	625.6	551.9	474.0	434.5	342.7	407.8	445.2	644.8	747.3	581.8
80°	469.7	485.7	465.4	418.5	387.5	269.0	274.4	305.3	383.2	423.8	355.5
82.5°	297.8	327.7	358.7	322.4	293.6	212.4	190.0	201.8	261.5	277.6	158.0
85°	124.9	127.0	208.2	196.4	167.6	126.0	114.2	120.6	139.8	146.3	73.7
87.5°	48.0	47.0	73.7	68.3	52.3	36.3	36.3	40.6	55.5	51.2	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452746

CATALOG NUMBER: GLAN-SA3D-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1	4097.1
2.5°	4111.0	4035.2	3884.7	3697.9	3561.3	3407.5	3272.0	3174.8	3138.5	3121.4	3089.4
5°	4107.8	3958.4	3646.7	3320.0	3057.4	2788.4	2561.0	2413.7	2400.9	2302.6	2293.0
7.5°	4108.9	3880.4	3384.0	2903.7	2503.3	2227.9	2040.0	1990.9	1932.2	1917.3	1924.7
10°	4112.1	3781.2	3102.2	2491.6	2104.1	1923.7	1853.2	1834.0	1836.1	1842.5	1843.6
12.5°	4116.4	3685.1	2809.7	2178.8	1879.9	1805.2	1797.7	1814.8	1832.9	1846.8	1850.0
15°	4121.7	3575.1	2524.7	1926.9	1767.8	1761.4	1786.0	1814.8	1840.4	1860.7	1863.9
17.5°	4115.3	3447.0	2285.6	1772.1	1705.9	1736.9	1777.4	1813.7	1837.2	1856.4	1858.6
20°	4100.3	3304.0	2055.0	1663.2	1667.5	1717.6	1761.4	1795.6	1821.2	1830.8	1838.3
22.5°	4042.7	3133.2	1854.3	1578.9	1621.6	1691.0	1743.3	1763.5	1734.7	1714.4	1719.8
25°	3944.5	2911.1	1667.5	1510.5	1579.9	1653.6	1707.0	1657.9	1634.4	1625.8	1630.1
27.5°	3821.7	2667.7	1526.6	1439.0	1526.6	1612.0	1597.0	1588.5	1577.8	1563.9	1567.1
30°	3689.4	2429.7	1407.0	1383.5	1468.9	1518.0	1524.4	1538.3	1526.6	1505.2	1513.7
32.5°	3566.6	2205.5	1316.3	1336.5	1428.3	1420.9	1468.9	1484.9	1430.5	1359.0	1362.2
35°	3462.0	1997.3	1247.9	1290.6	1359.0	1362.2	1410.2	1354.7	1296.0	1261.8	1263.9
37.5°	3383.0	1835.1	1203.1	1251.1	1270.4	1310.9	1285.3	1256.5	1249.0	1225.5	1226.6
40°	3336.0	1693.1	1174.3	1220.2	1217.0	1244.7	1162.5	1191.4	1202.0	1194.6	1195.6
42.5°	3289.0	1592.7	1144.4	1177.5	1176.4	1122.0	1103.8	1128.4	1156.1	1159.3	1157.2
45°	3251.7	1514.8	1113.4	1112.4	1133.7	1048.3	1043.0	1057.9	1097.4	1116.6	1115.6
47.5°	3210.0	1449.7	1066.5	1036.6	1043.0	1002.4	993.9	1000.3	1048.3	1079.3	1087.8
50°	3157.7	1384.6	1007.7	967.2	940.5	959.7	961.8	962.9	1010.9	1046.2	1053.6
52.5°	3116.1	1335.5	940.5	910.6	878.6	921.3	937.3	939.4	968.2	997.1	1002.4
55°	3140.6	1307.7	874.3	852.9	824.1	881.8	912.7	917.0	923.4	944.8	948.0
57.5°	3214.3	1314.1	820.9	793.2	771.8	834.8	887.1	890.3	886.0	911.7	915.9
60°	3236.7	1310.9	781.4	727.0	714.2	784.6	849.7	856.2	855.1	892.4	899.9
62.5°	3142.8	1270.4	741.9	671.5	662.9	733.4	797.4	823.1	828.4	881.8	891.4
65°	2921.8	1187.1	689.6	612.8	612.8	678.9	747.3	782.5	797.4	869.0	879.6
67.5°	2630.4	1088.9	636.2	562.6	560.4	626.6	693.9	730.2	753.7	850.8	857.2
70°	2183.1	956.5	570.1	508.1	508.1	567.9	628.8	672.5	706.7	816.7	816.7
72.5°	1495.6	795.3	490.0	446.2	447.3	502.8	564.7	613.8	654.4	748.3	750.5
75°	945.8	621.3	402.5	380.0	384.3	436.6	500.7	551.9	633.0	739.8	743.0
77.5°	502.8	436.6	320.3	314.9	320.3	368.3	439.8	510.3	635.2	641.6	630.9
80°	325.6	309.6	253.0	242.3	244.5	296.8	391.8	484.7	510.3	516.7	493.2
82.5°	177.2	196.4	179.3	168.7	168.7	231.7	334.1	385.4	366.2	304.2	290.4
85°	75.8	91.8	92.9	81.1	77.9	143.0	224.2	210.3	195.4	186.8	184.7
87.5°	21.4	29.9	29.9	22.4	17.1	39.5	44.8	12.8	0.0	1.1	2.1
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)