

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: P268310

Luminaire Tested: **GAN-AF-02-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7128.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

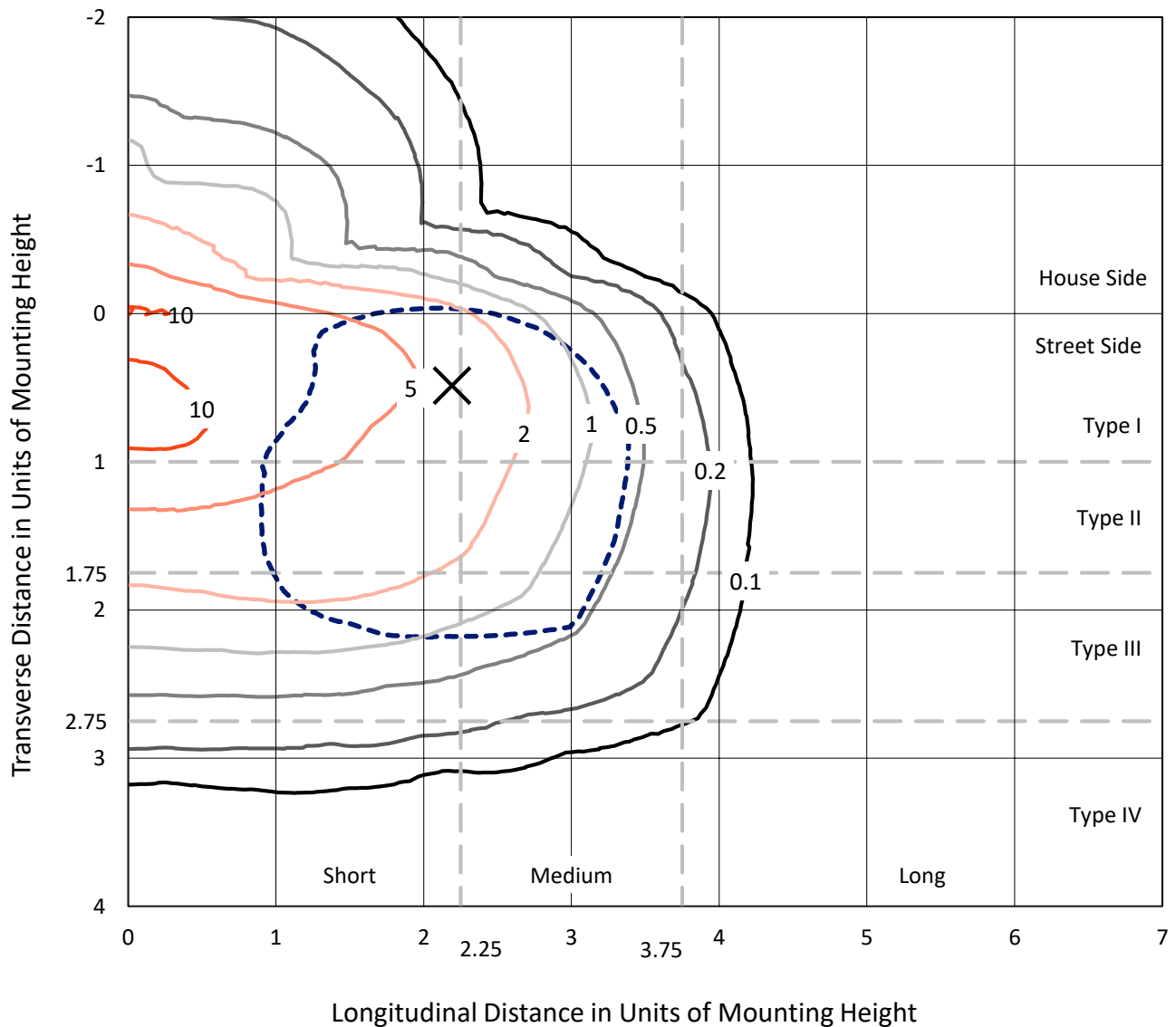
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

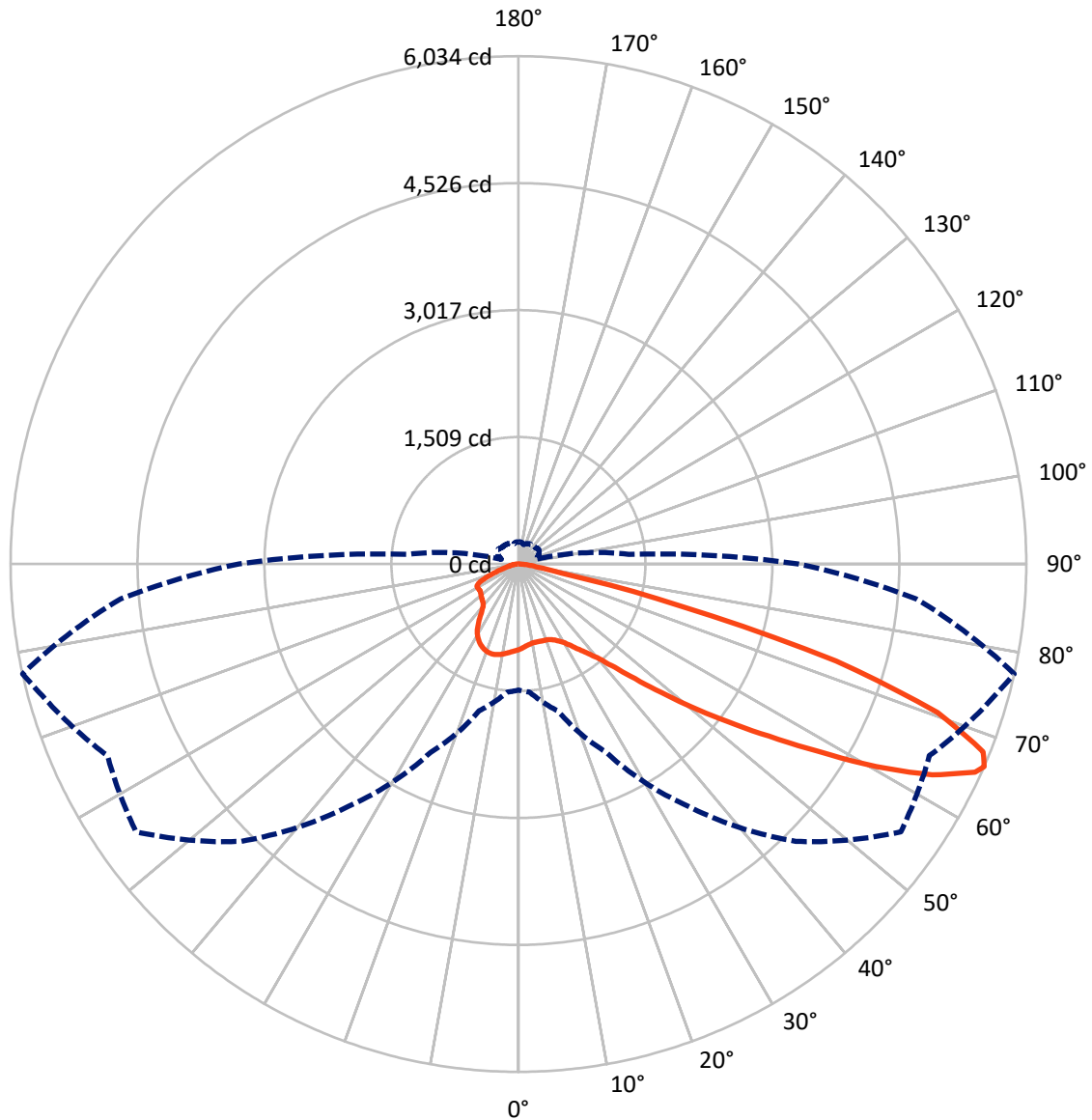
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.9	0.0	1217.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5910.6	0.0	5910.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	7128.5	0.0	7128.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	1.3
10°-20°	256.0	3.6
20°-30°	437.0	6.1
30°-40°	699.5	9.8
40°-50°	1080.7	15.2
50°-60°	1532.8	21.5
60°-70°	2050.5	28.8
70°-80°	890.5	12.5
80°-90°	90.8	1.3
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°	7128.5	100.0
0°-180°	7128.5	100.0

Coefficient of Utilization



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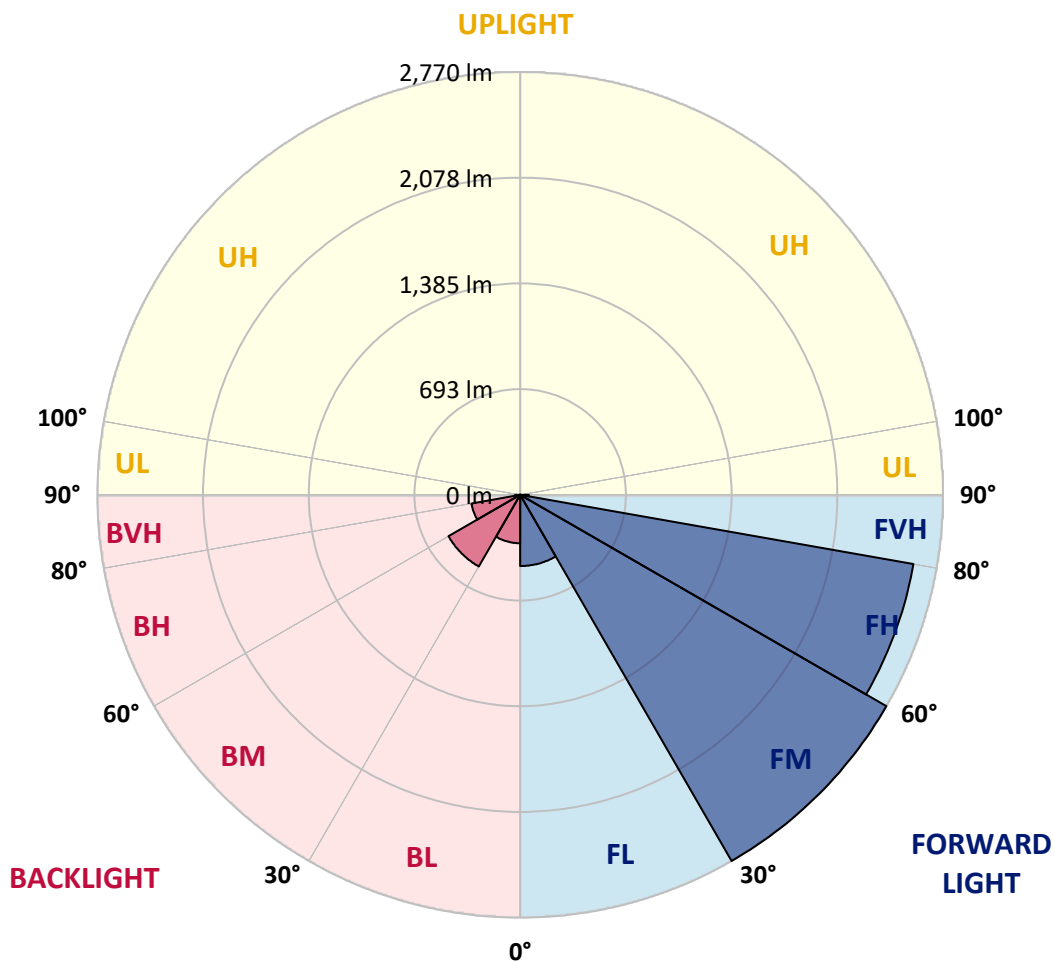
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.6	6.5			
FM	(30°-60°)	2770.5	38.9			
FH	(60°-80°)	2616.6	36.7			G2/5000
FVH	(80°-90°)	56.9	0.8			G1/100
BL	(0°-30°)	317.2	4.4	B1/500		
BM	(30°-60°)	542.5	7.6	B1/1000		
BH	(60°-80°)	324.3	4.5	B1/500		G1/500
BVH	(80°-90°)	33.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	898.7	904.8	909.8	914.5	923.8	939.4	957.2	971.7	992.5	996.7	1007.8
5°	816.1	816.1	820.2	827.2	840.0	863.4	887.5	919.9	965.3	976.1	1005.7
7.5°	776.0	776.3	778.7	784.8	795.9	817.1	843.8	881.7	943.4	961.2	1011.9
10°	790.9	787.5	782.5	779.4	781.0	793.6	818.9	861.2	929.9	952.8	1025.2
12.5°	873.7	867.4	849.7	826.5	804.3	795.2	810.0	851.5	924.3	950.9	1043.1
15°	1009.1	1006.5	973.8	925.6	871.6	826.5	816.5	847.8	925.0	953.2	1064.3
17.5°	1178.8	1175.2	1132.0	1061.9	974.1	886.2	838.9	850.9	927.3	957.2	1085.0
20°	1350.3	1338.8	1292.4	1208.8	1096.0	967.4	876.3	858.5	930.3	961.6	1106.4
22.5°	1478.3	1468.9	1427.0	1345.9	1215.9	1061.3	926.6	872.1	940.0	974.4	1133.0
25°	1590.8	1591.4	1550.0	1471.6	1337.1	1161.0	991.3	908.0	965.0	1000.7	1169.5
27.5°	1729.9	1721.8	1683.1	1605.4	1457.1	1261.7	1069.4	957.6	1002.0	1038.1	1217.3
30°	1896.3	1890.6	1845.7	1757.5	1590.1	1369.8	1158.6	1015.2	1049.8	1087.3	1279.9
32.5°	2092.1	2089.3	2042.7	1929.3	1743.7	1497.1	1263.3	1091.4	1121.3	1160.0	1369.8
35°	2321.7	2321.9	2267.1	2130.7	1911.9	1645.3	1382.3	1189.3	1208.2	1248.6	1477.0
37.5°	2463.2	2480.3	2459.7	2320.7	2102.0	1811.1	1536.6	1319.3	1307.3	1347.9	1591.7
40°	2493.4	2514.4	2579.4	2508.6	2314.9	1993.6	1673.4	1444.2	1429.2	1479.0	1739.7
42.5°	2451.0	2480.0	2617.4	2667.2	2540.9	2218.6	1857.2	1629.9	1610.8	1677.7	1923.6
45°	2425.8	2447.3	2606.3	2749.8	2737.0	2472.9	2091.3	1862.9	1855.9	1943.8	2135.8
47.5°	2381.9	2401.4	2554.4	2768.9	2852.2	2706.1	2372.6	2147.8	2161.7	2276.9	2375.3
50°	2405.5	2413.7	2496.5	2720.2	2885.5	2876.7	2686.8	2478.0	2525.1	2669.0	2646.3
52.5°	2402.2	2423.1	2489.7	2639.9	2889.8	2982.3	2996.3	2846.1	2945.5	3110.6	2947.2
55°	1942.0	1980.6	2410.6	2619.7	2905.4	3085.6	3271.8	3234.2	3419.4	3611.7	3286.7
57.5°	1854.6	1878.7	2117.2	2662.1	2987.7	3282.9	3578.4	3661.2	3971.0	4194.4	3700.3
60°	1837.4	1867.3	2114.3	2714.0	3154.3	3604.5	4032.8	4178.2	4642.4	4886.9	4180.0
62.5°	1783.8	1816.2	2094.4	2707.3	3391.1	4049.6	4614.5	4727.9	5279.0	5516.8	4581.0
65°	1614.1	1644.3	1932.3	2598.5	3550.7	4524.6	5302.9	5231.8	5781.5	5960.3	4781.1
66°	1497.8	1527.5	1804.7	2470.6	3513.7	4659.1	5546.8	5387.8	5894.0	6034.2	4742.1
67.5°	1285.4	1308.6	1556.8	2183.9	3316.6	4697.0	5751.8	5505.0	5905.7	5955.4	4518.7
70°	812.1	818.9	1011.9	1507.5	2510.7	4073.5	5439.6	5213.9	5418.8	5284.6	3788.2
72.5°	352.3	350.0	485.8	767.0	1421.4	2733.4	4400.2	4302.3	4250.7	3944.8	2651.7
75°	196.0	198.7	252.2	356.0	577.6	1342.5	2878.4	2754.6	2325.7	1984.5	1202.4
77.5°	157.4	160.9	209.1	252.7	259.3	468.1	1347.0	1096.0	659.9	529.6	334.1
80°	124.2	131.1	182.5	196.6	174.8	193.0	435.1	348.0	261.0	239.5	173.2
82.5°	98.4	103.0	156.7	148.8	122.3	130.1	208.4	203.0	169.8	154.6	100.0
85°	70.7	79.5	128.6	112.2	80.2	87.6	138.3	132.7	97.3	79.5	44.1
87.5°	28.9	37.6	91.0	74.4	44.7	40.8	69.1	64.9	46.2	33.6	21.9
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°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1014.8	1022.9	1033.4	1039.8	1043.1	1045.4	1049.2	1048.9	1049.8	1050.2	1051.6
5°	1021.6	1035.0	1050.2	1054.3	1054.3	1050.6	1046.9	1040.7	1038.4	1037.7	1038.4
7.5°	1039.1	1053.9	1067.0	1062.3	1052.3	1037.5	1018.1	1001.4	992.3	989.3	988.6
10°	1061.3	1079.1	1084.6	1066.6	1037.1	1001.4	963.3	935.7	919.9	915.5	914.1
12.5°	1088.2	1105.2	1097.6	1060.0	1005.1	947.4	894.9	850.9	817.7	807.3	806.7
15°	1117.9	1131.1	1105.2	1039.1	957.2	872.3	778.7	702.7	661.5	648.3	647.4
17.5°	1145.5	1152.3	1100.8	1002.7	886.8	749.5	625.1	566.6	552.4	555.7	556.4
20°	1169.1	1169.1	1086.0	950.4	776.0	587.4	508.9	507.9	518.1	528.2	530.2
22.5°	1195.0	1179.6	1060.0	876.7	619.1	480.7	469.2	478.5	490.0	501.2	503.0
25°	1227.1	1188.0	1023.9	764.8	486.7	436.5	440.9	448.7	454.4	461.4	462.4
27.5°	1262.7	1198.8	976.5	610.9	422.4	408.9	412.2	414.9	414.3	417.0	417.6
30°	1305.4	1211.3	911.4	477.5	395.8	385.4	379.3	376.8	376.8	381.3	382.9
32.5°	1362.8	1229.7	818.1	409.3	382.9	368.5	348.9	340.2	343.5	358.3	361.7
35°	1425.8	1249.6	691.9	386.0	380.3	360.7	330.4	314.2	314.5	328.4	332.8
37.5°	1494.5	1274.9	553.4	381.6	386.4	361.1	320.6	298.4	289.3	289.3	291.1
40°	1582.4	1300.7	448.0	384.7	399.1	365.2	315.7	286.0	260.4	261.0	262.3
42.5°	1696.9	1323.1	391.4	391.0	414.6	370.6	315.2	269.4	247.3	262.3	276.1
45°	1824.2	1334.2	366.5	396.8	427.1	373.9	309.8	266.7	248.9	294.0	320.3
47.5°	1970.7	1327.8	352.7	398.8	430.1	373.9	303.7	273.2	260.7	340.5	371.2
50°	2131.4	1309.2	339.2	394.7	429.1	373.2	309.6	279.6	265.1	348.6	369.8
52.5°	2320.3	1293.6	325.0	386.0	422.1	369.6	316.3	276.9	251.3	316.9	331.7
55°	2535.9	1298.1	309.1	373.5	411.0	362.5	313.9	266.1	236.9	279.3	288.4
57.5°	2811.4	1350.3	290.3	357.7	395.8	350.6	305.6	261.0	232.4	253.3	258.7
60°	3118.9	1441.2	266.7	341.9	376.8	331.7	299.0	263.5	234.4	251.3	254.0
62.5°	3344.6	1494.2	246.6	318.5	351.2	310.9	291.1	266.4	239.8	258.4	257.6
65°	3406.0	1407.3	221.3	284.7	316.7	289.0	280.9	269.9	242.2	264.0	261.0
66°	3320.0	1313.6	210.2	268.9	299.0	278.3	275.9	269.4	241.1	264.7	259.7
67.5°	3111.5	1121.7	191.0	245.5	271.2	262.0	267.8	266.4	238.5	264.0	256.9
70°	2537.6	765.3	163.3	204.5	225.7	230.8	252.2	255.7	229.6	252.2	236.9
72.5°	1773.1	466.2	144.4	158.6	182.5	196.6	231.0	240.8	217.8	220.3	205.4
75°	856.9	247.6	131.1	123.0	141.8	164.4	205.4	220.7	199.5	184.2	178.9
77.5°	267.1	151.3	111.1	99.1	111.1	132.7	171.8	193.3	177.5	154.2	152.3
80°	143.5	111.1	85.6	79.5	87.9	104.1	135.0	161.3	152.6	138.3	123.5
82.5°	94.6	72.0	63.3	61.7	67.1	79.5	100.4	133.7	133.7	118.5	86.2
85°	48.9	44.1	43.5	43.5	46.8	52.9	68.5	103.0	109.9	62.6	51.8
87.5°	24.3	25.2	23.5	24.7	26.3	26.0	32.7	51.8	62.0	38.1	31.7
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)