

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: P193229

Luminaire Tested: **GAN-AF-01-LED-U-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193229
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-01-LED-U-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6162.2 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

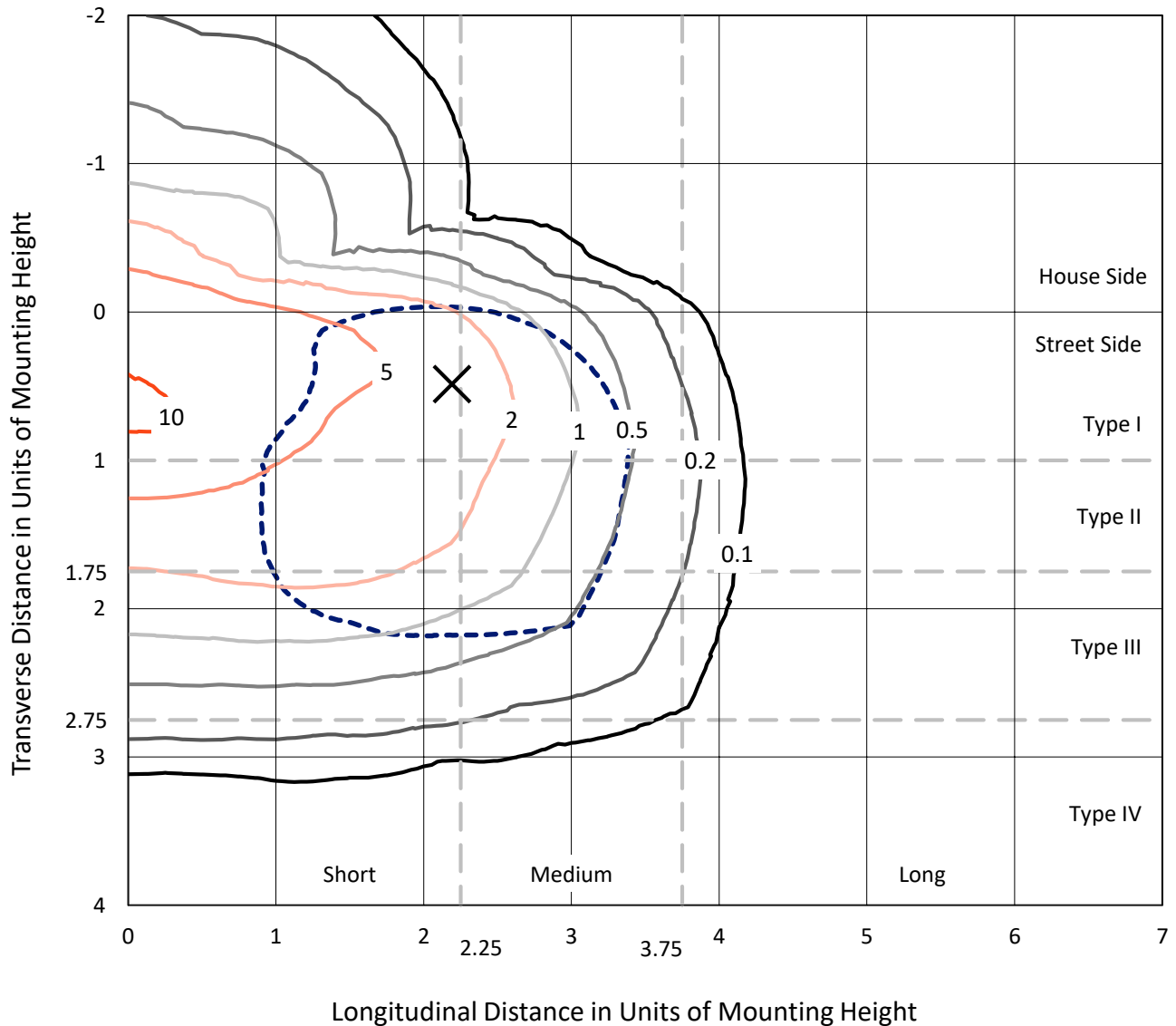
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

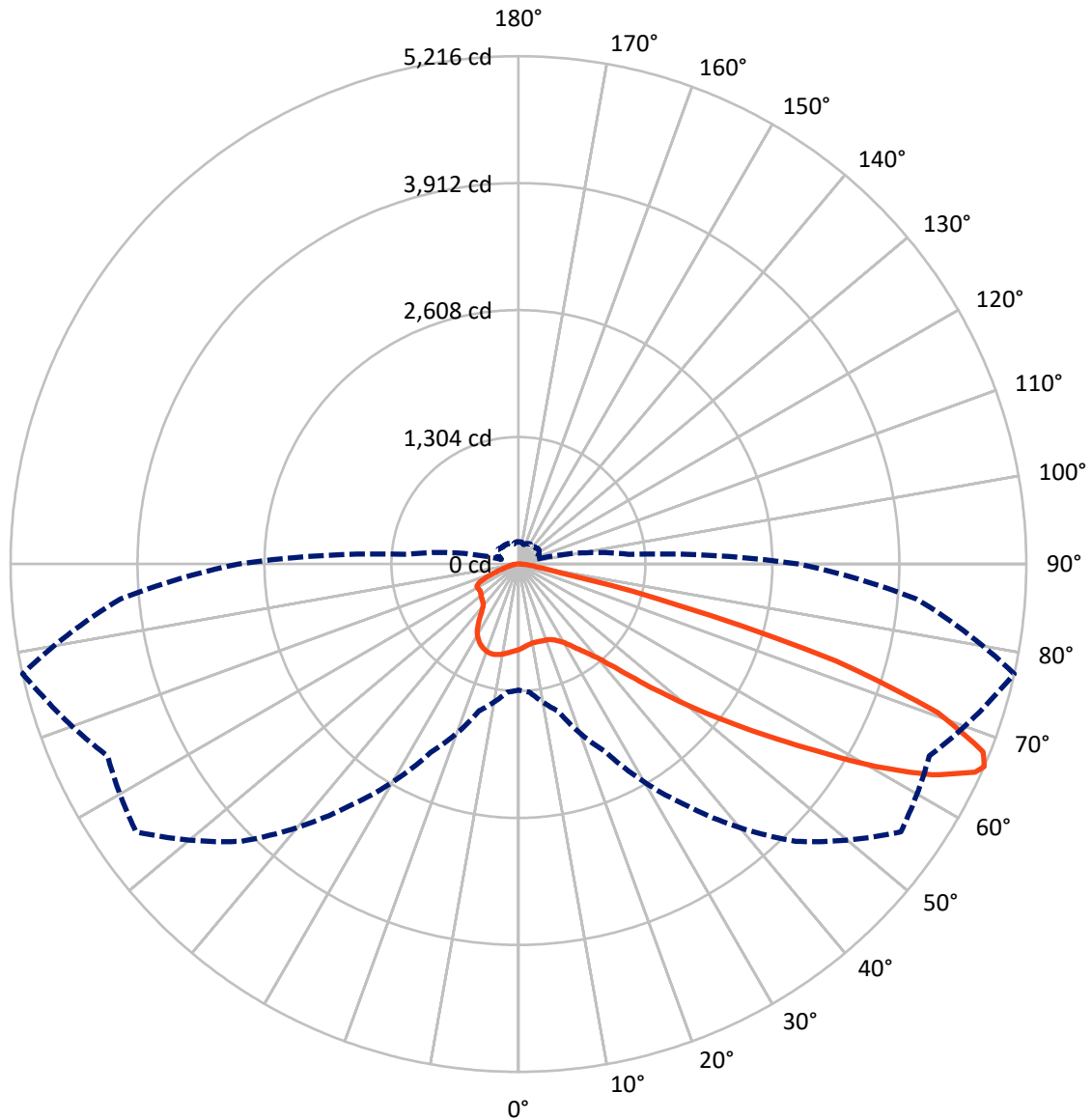
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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	1052.8	0.0	1052.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5109.4	0.0	5109.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	6162.2	0.0	6162.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	221.3	3.6
20°-30°	377.7	6.1
30°-40°	604.7	9.8
40°-50°	934.2	15.2
50°-60°	1325.0	21.5
60°-70°	1772.5	28.8
70°-80°	769.8	12.5
80°-90°	78.5	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°	6162.2	100.0
0°-180°	6162.2	100.0



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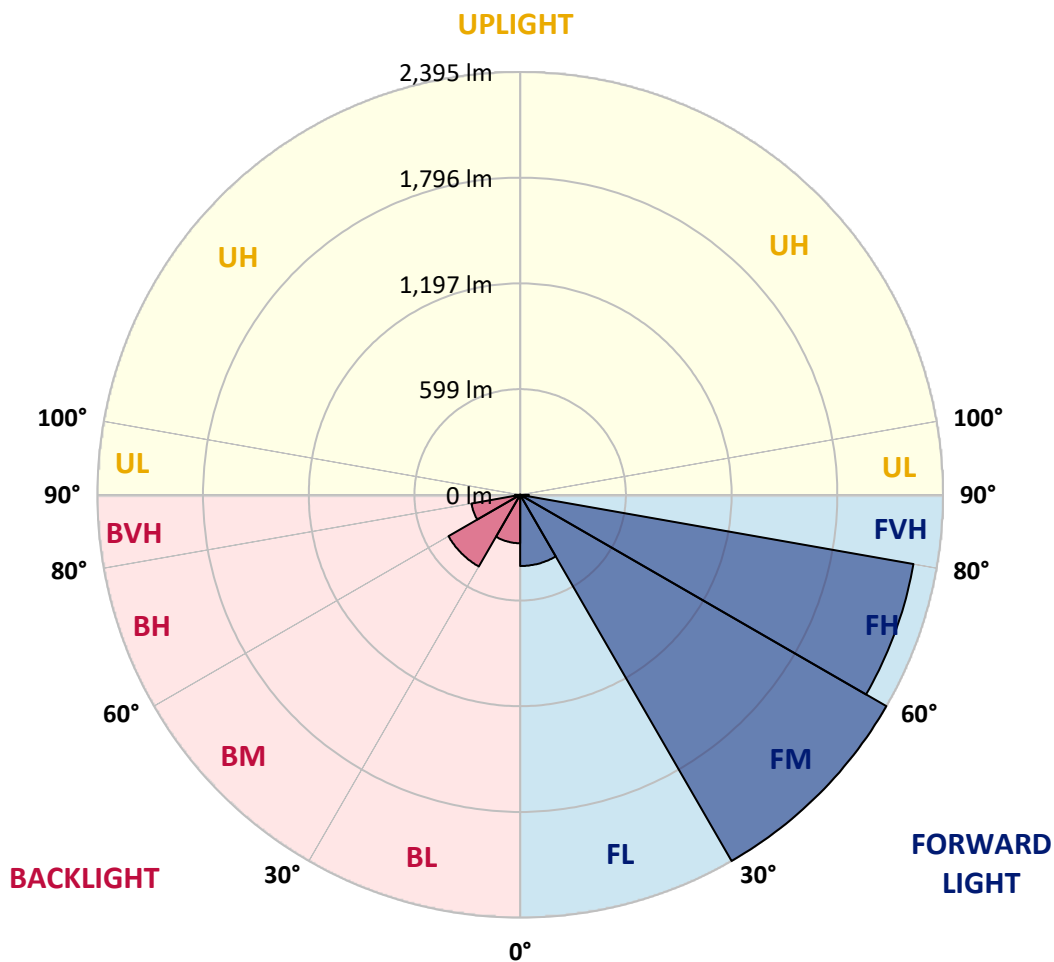
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	403.3	6.5			
FM	(30°-60°)	2395.0	38.9			
FH	(60°-80°)	2261.9	36.7			G2/5000
FVH	(80°-90°)	49.2	0.8			G1/100
BL	(0°-30°)	274.2	4.4	B1/500		
BM	(30°-60°)	468.9	7.6	B1/1000		
BH	(60°-80°)	280.4	4.5	B1/500		G1/500
BVH	(80°-90°)	29.3	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°	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1
2.5°	776.9	782.1	786.4	790.5	798.6	812.1	827.5	839.9	858.0	861.5	871.2
5°	705.5	705.5	709.0	715.1	726.1	746.2	767.2	795.2	834.5	843.8	869.3
7.5°	670.9	671.2	673.1	678.4	688.0	706.4	729.5	762.3	815.5	831.0	874.6
10°	683.6	680.6	676.5	673.8	675.2	685.9	707.8	744.5	803.9	823.7	886.3
12.5°	755.3	749.7	734.6	714.5	695.3	687.5	700.3	736.1	798.9	821.9	901.7
15°	872.3	870.0	841.8	800.1	753.6	714.5	705.9	732.8	799.6	824.1	920.1
17.5°	1019.1	1015.9	978.6	918.0	842.1	766.0	725.3	735.5	801.5	827.5	937.9
20°	1167.2	1157.4	1117.1	1044.9	947.5	836.3	757.6	742.2	804.1	831.3	956.4
22.5°	1277.9	1269.8	1233.6	1163.5	1051.1	917.4	801.0	753.8	812.7	842.3	979.5
25°	1375.1	1375.8	1339.9	1272.1	1156.0	1003.6	856.9	785.0	834.2	865.0	1010.8
27.5°	1495.4	1488.4	1454.9	1387.7	1259.5	1090.7	924.5	827.7	866.2	897.3	1052.2
30°	1639.2	1634.3	1595.6	1519.2	1374.6	1184.2	1001.6	877.6	907.5	939.8	1106.5
32.5°	1808.5	1806.0	1765.8	1667.8	1507.3	1294.1	1092.1	943.4	969.2	1002.8	1184.2
35°	2007.0	2007.3	1959.8	1841.9	1652.6	1422.3	1195.0	1028.1	1044.4	1079.4	1276.7
37.5°	2129.3	2144.1	2126.4	2006.1	1817.1	1565.5	1328.3	1140.4	1130.0	1165.2	1376.0
40°	2155.4	2173.5	2229.8	2168.6	2001.2	1723.3	1446.5	1248.5	1235.4	1278.5	1503.9
42.5°	2118.7	2143.7	2262.6	2305.7	2196.5	1917.9	1605.4	1408.9	1392.3	1450.3	1662.8
45°	2096.9	2115.6	2253.0	2377.1	2366.0	2137.7	1807.8	1610.4	1604.3	1680.3	1846.3
47.5°	2059.1	2076.0	2208.1	2393.7	2465.6	2339.2	2050.9	1856.8	1868.7	1968.3	2053.3
50°	2079.5	2086.6	2158.1	2351.5	2494.4	2486.8	2322.7	2142.0	2182.9	2307.1	2287.7
52.5°	2076.6	2094.6	2152.3	2282.1	2498.2	2578.0	2590.2	2460.3	2546.2	2688.9	2547.7
55°	1678.9	1712.0	2083.9	2264.6	2511.6	2667.3	2828.4	2795.7	2955.9	3122.1	2841.2
57.5°	1603.2	1624.1	1830.2	2301.3	2582.6	2838.0	3093.3	3164.9	3432.8	3625.9	3198.7
60°	1588.3	1614.2	1827.6	2346.3	2726.8	3116.1	3486.1	3611.9	4013.1	4224.5	3613.3
62.5°	1541.9	1569.9	1810.4	2340.4	2931.4	3500.6	3988.9	4087.1	4563.4	4768.9	3960.1
65°	1395.2	1421.5	1670.3	2246.4	3069.4	3911.2	4584.1	4522.7	4997.8	5152.4	4133.1
66°	1294.8	1320.4	1560.0	2135.7	3037.4	4027.7	4794.9	4657.4	5095.1	5216.1	4099.3
67.5°	1111.0	1131.2	1345.7	1887.9	2867.1	4060.3	4972.2	4758.8	5105.2	5148.1	3906.2
70°	702.0	707.8	874.6	1303.3	2170.3	3521.3	4702.3	4507.2	4684.3	4568.3	3274.7
72.5°	304.5	302.5	419.9	662.9	1228.7	2362.7	3803.8	3718.9	3674.5	3410.1	2292.4
75°	169.5	171.7	218.1	307.8	499.4	1160.6	2488.3	2381.1	2010.5	1715.5	1039.5
77.5°	135.9	139.2	180.9	218.4	224.2	404.7	1164.3	947.5	570.4	457.7	288.9
80°	107.4	113.3	157.8	170.0	151.1	166.8	376.2	300.8	225.6	207.0	149.6
82.5°	85.0	89.0	135.4	128.7	105.7	112.4	180.3	175.6	146.7	133.7	86.5
85°	61.1	68.8	111.2	96.9	69.3	75.7	119.6	114.7	84.1	68.8	38.1
87.5°	25.0	32.6	78.6	64.4	38.7	35.2	59.6	56.2	39.9	29.1	18.9
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°	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1
2.5°	877.3	884.2	893.3	898.7	901.7	903.8	907.0	906.7	907.5	907.8	909.0
5°	883.2	894.8	907.8	911.3	911.3	908.2	904.8	899.6	897.7	897.0	897.7
7.5°	898.2	911.0	922.3	918.4	909.6	896.8	880.2	865.7	857.8	855.2	854.5
10°	917.4	932.8	937.6	922.1	896.5	865.7	832.8	808.8	795.2	791.4	790.2
12.5°	940.7	955.3	948.9	916.2	868.8	819.0	773.7	735.5	706.9	697.9	697.3
15°	966.4	977.8	955.3	898.2	827.5	754.1	673.1	607.4	571.9	560.5	559.6
17.5°	990.2	996.1	951.5	866.8	766.7	647.8	540.4	489.7	477.5	480.4	481.0
20°	1010.6	1010.6	938.7	821.6	670.9	507.8	440.0	439.1	447.9	456.6	458.4
22.5°	1033.0	1019.6	916.2	757.9	535.2	415.5	405.6	413.8	423.6	433.2	434.8
25°	1060.7	1026.9	885.1	661.2	420.7	377.4	381.1	387.9	392.8	398.9	399.8
27.5°	1091.6	1036.3	844.0	528.2	365.2	353.5	356.4	358.7	358.2	360.4	361.0
30°	1128.5	1047.0	787.9	412.9	342.1	333.1	327.9	325.8	325.8	329.6	331.0
32.5°	1178.1	1063.0	707.2	353.8	331.0	318.5	301.7	294.1	296.9	309.8	312.7
35°	1232.5	1080.2	598.0	333.7	328.8	311.8	285.6	271.6	271.9	283.8	287.7
37.5°	1291.9	1102.1	478.3	329.9	334.0	312.2	277.2	258.0	250.1	250.1	251.6
40°	1367.9	1124.5	387.3	332.4	345.0	315.6	272.8	247.2	225.1	225.6	226.8
42.5°	1467.0	1143.7	338.3	338.0	358.4	320.2	272.5	232.9	213.7	226.8	238.7
45°	1576.9	1153.3	316.8	343.0	369.2	323.2	267.9	230.6	215.1	254.1	276.9
47.5°	1703.6	1147.8	304.9	344.7	371.8	323.2	262.7	236.1	225.4	294.4	320.9
50°	1842.4	1131.7	293.3	341.2	370.9	322.7	267.5	241.7	229.1	301.3	319.7
52.5°	2005.8	1118.4	281.1	333.7	364.8	319.4	273.3	239.4	217.2	274.0	286.8
55°	2192.2	1122.1	267.2	322.9	355.2	313.2	271.4	230.0	204.7	241.4	249.2
57.5°	2430.4	1167.2	251.0	309.2	342.1	303.0	264.1	225.6	200.9	218.9	223.7
60°	2696.2	1245.9	230.6	295.5	325.8	286.8	258.5	227.7	202.6	217.2	219.5
62.5°	2891.2	1291.6	213.2	275.5	303.6	268.8	251.6	230.3	207.3	223.3	222.8
65°	2944.2	1216.5	191.3	246.1	273.7	249.7	242.9	233.3	209.3	228.3	225.6
66°	2870.0	1135.5	181.7	232.4	258.5	240.5	238.5	232.9	208.4	228.9	224.5
67.5°	2689.8	969.5	165.1	212.3	234.4	226.5	231.5	230.3	206.2	228.3	222.2
70°	2193.6	661.6	141.2	176.8	195.0	199.4	218.1	221.0	198.6	218.1	204.7
72.5°	1532.7	402.9	124.9	137.1	157.8	170.0	199.7	208.1	188.4	190.4	177.6
75°	740.7	214.0	113.3	106.3	122.6	142.0	177.6	190.6	172.4	159.3	154.6
77.5°	230.9	130.8	96.0	85.5	96.0	114.7	148.5	167.1	153.4	133.4	131.6
80°	124.0	96.0	74.0	68.8	76.1	89.9	116.8	139.5	131.8	119.6	106.8
82.5°	81.8	62.3	54.7	53.3	57.9	68.8	86.8	115.6	115.6	102.4	74.6
85°	42.2	38.1	37.5	37.5	40.4	45.7	59.1	89.0	94.9	54.2	44.8
87.5°	21.0	21.9	20.4	21.3	22.7	22.4	28.2	44.8	53.5	32.9	27.4
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)