

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: P318435

Luminaire Tested: **GAN-SA1B-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318435
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-SA1B-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5985 lumens
Efficiency: N/A
Efficacy: 136.0 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

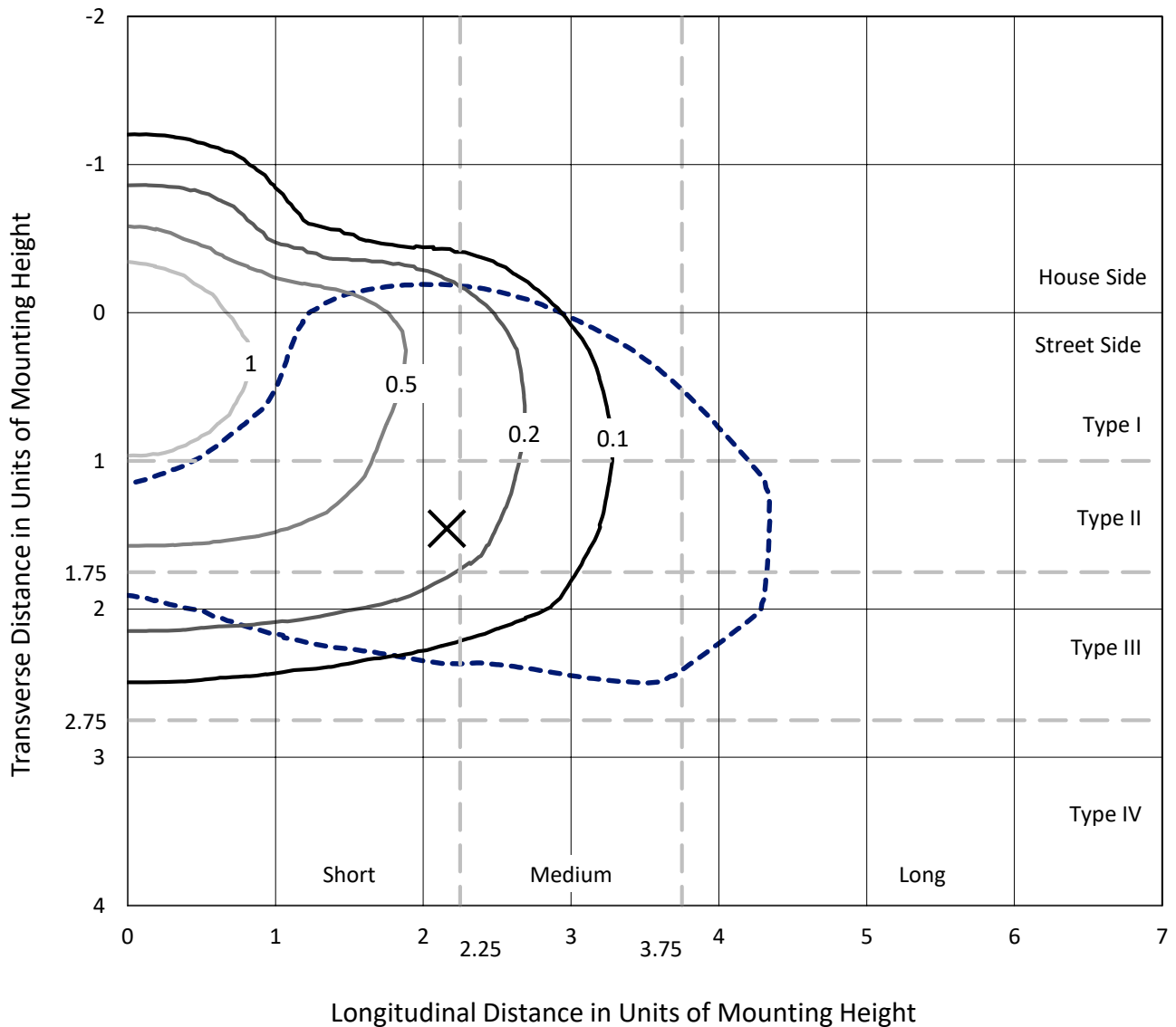
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

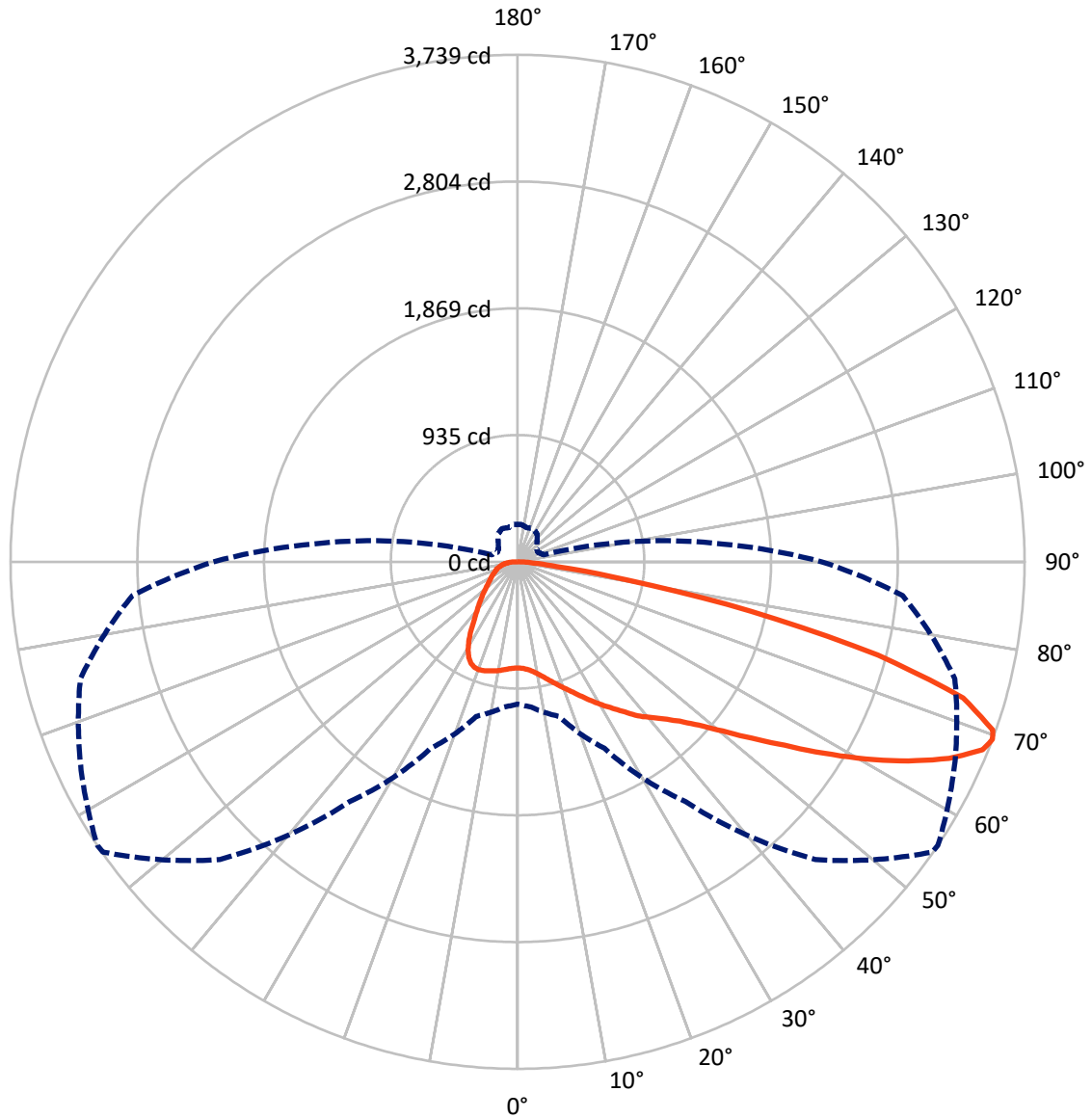
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1332.9	0.0	1332.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4652.2	0.0	4652.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	5985.0	0.0	5985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.3
10°-20°	247.1	4.1
20°-30°	431.4	7.2
30°-40°	619.6	10.4
40°-50°	857.6	14.3
50°-60°	1256.4	21.0
60°-70°	1531.8	25.6
70°-80°	846.9	14.2
80°-90°	117.3	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°	5985.0	100.0
0°-180°	5985.0	100.0



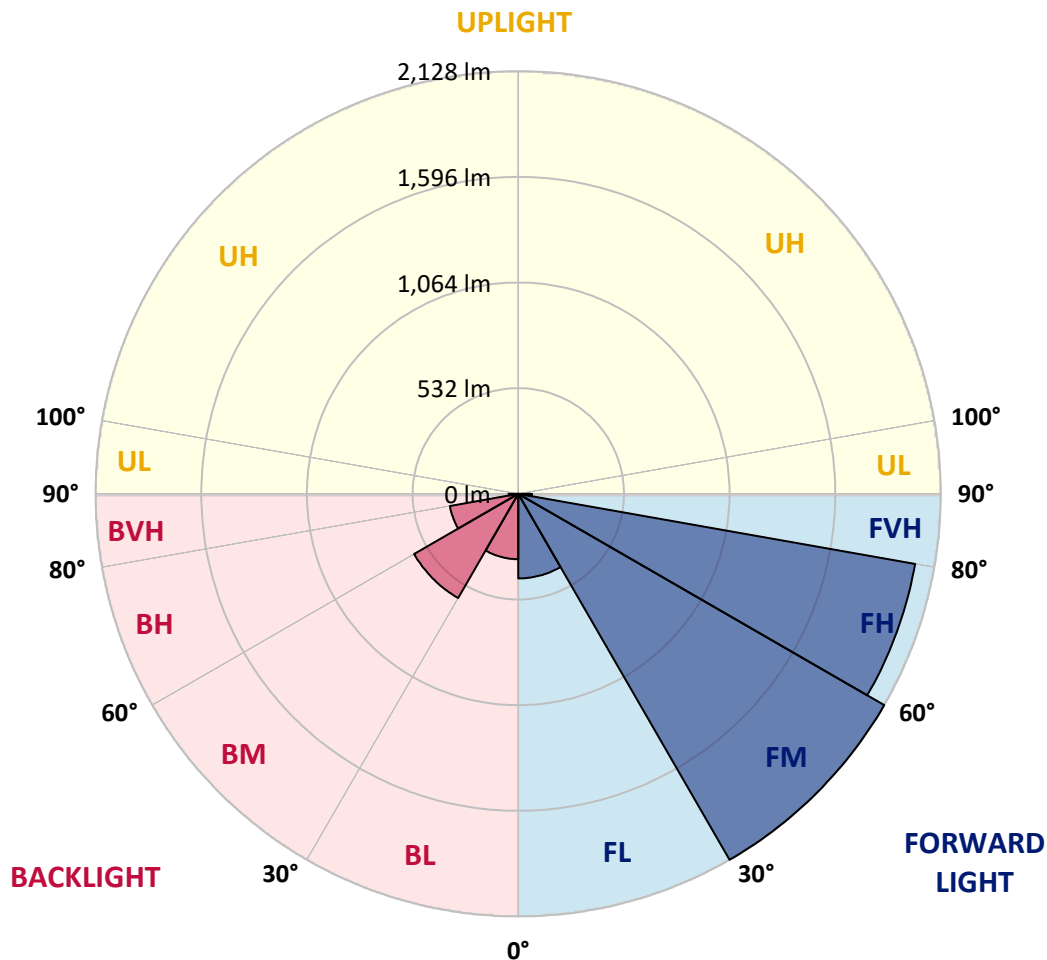
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.0	7.1			
FM (30°-60°)	2127.9	35.6			
FH (60°-80°)	2029.2	33.9			G2/5000
FVH (80°-90°)	69.1	1.2			G1/100
BL (0°-30°)	329.4	5.5	B1/500		
BM (30°-60°)	605.7	10.1	B1/1000		
BH (60°-80°)	349.5	5.8	B1/500		G1/500
BVH (80°-90°)	48.2	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°	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4
2.5°	787.4	788.2	787.6	789.3	787.4	788.6	787.6	787.6	787.0	785.1	783.1
5°	799.8	801.4	800.4	802.0	799.8	800.2	798.3	798.3	796.5	792.6	788.4
7.5°	819.1	821.0	820.2	821.8	818.7	818.7	816.3	816.3	812.3	806.0	801.2
10°	842.2	844.7	843.9	846.4	843.9	844.7	842.2	842.2	837.3	828.2	822.2
12.5°	875.8	878.9	876.7	876.5	875.4	877.1	875.0	874.6	870.1	857.7	849.5
15°	920.8	924.1	919.4	918.9	913.2	912.5	912.5	911.9	909.0	894.2	880.6
17.5°	972.5	973.6	969.5	962.9	955.4	950.7	950.1	951.7	951.7	934.4	912.8
20°	1023.3	1025.1	1021.8	1014.4	1004.9	997.9	993.0	996.3	996.0	975.4	944.7
22.5°	1078.5	1082.9	1077.9	1068.4	1057.3	1049.5	1040.8	1043.7	1043.9	1018.5	976.1
25°	1150.1	1146.1	1143.1	1129.7	1113.8	1105.7	1097.7	1100.6	1099.8	1064.9	1008.4
27.5°	1213.4	1214.2	1210.1	1195.8	1177.5	1159.8	1159.3	1161.2	1158.1	1113.2	1038.9
30°	1287.0	1287.4	1281.6	1268.8	1248.8	1225.9	1220.6	1223.7	1217.1	1158.9	1071.1
32.5°	1360.2	1362.2	1355.8	1340.4	1324.3	1296.5	1285.7	1287.8	1271.3	1205.7	1104.3
35°	1424.3	1427.2	1425.1	1414.8	1397.3	1373.4	1360.6	1359.3	1338.9	1263.1	1148.2
37.5°	1489.6	1492.3	1490.1	1481.4	1474.4	1449.0	1442.2	1442.2	1406.8	1321.6	1204.1
40°	1556.9	1561.0	1558.3	1546.3	1540.4	1528.8	1512.5	1508.6	1470.3	1391.9	1295.2
42.5°	1619.3	1624.7	1635.4	1628.4	1616.2	1617.9	1585.1	1583.0	1555.0	1495.8	1409.6
45°	1708.0	1715.8	1734.0	1728.6	1726.1	1717.1	1678.1	1676.2	1665.5	1635.6	1551.7
47.5°	1804.7	1815.4	1848.2	1849.2	1875.8	1858.7	1805.7	1799.3	1801.8	1803.0	1725.1
50°	1893.8	1905.5	1959.3	1984.7	2047.4	2051.1	1966.3	1960.6	1970.2	1998.7	1927.2
52.5°	1964.9	1979.7	2046.9	2125.3	2232.7	2263.2	2164.1	2159.7	2166.9	2216.0	2155.6
55°	2017.0	2033.1	2106.3	2249.0	2420.5	2474.4	2391.7	2387.6	2392.1	2454.6	2404.0
57.5°	2029.2	2033.1	2139.3	2332.3	2579.1	2708.4	2670.2	2662.0	2639.7	2694.1	2678.3
60°	1972.1	1987.8	2112.1	2361.6	2701.8	2939.1	2961.3	2951.0	2888.6	2933.1	2920.3
62.5°	1856.2	1884.3	2010.4	2317.0	2749.8	3127.5	3246.9	3234.5	3126.9	3155.8	3094.3
65°	1667.0	1678.9	1811.5	2163.4	2688.8	3248.1	3501.5	3495.3	3359.9	3314.7	3126.5
67.5°	1328.4	1350.9	1463.5	1842.4	2439.1	3233.9	3698.4	3697.8	3512.1	3373.7	3012.5
69°	1049.5	1072.7	1180.0	1517.7	2158.3	3103.8	3731.4	3738.6	3554.9	3337.8	2849.6
70°	836.7	863.7	937.3	1278.3	1909.0	2932.3	3704.0	3717.0	3546.7	3278.7	2699.3
72.5°	356.1	377.9	430.3	658.9	1163.5	2189.6	3386.7	3435.8	3355.6	3000.7	2230.9
75°	155.5	162.3	186.0	268.7	516.5	1191.7	2653.1	2743.8	2869.2	2536.4	1661.8
77.5°	113.8	116.7	129.7	157.7	231.7	450.1	1706.1	1758.9	2069.2	1845.7	1019.3
80°	88.0	90.1	100.2	115.9	151.3	182.1	778.1	823.5	1163.5	948.0	424.5
82.5°	70.1	71.5	78.6	85.4	104.5	110.3	258.3	286.6	429.5	261.8	112.4
85°	65.2	66.8	69.3	62.3	67.0	64.7	111.7	116.9	129.7	102.9	47.0
87.5°	29.5	34.8	68.7	48.5	35.7	28.5	45.8	47.8	53.8	54.0	20.8
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°	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4	782.4
2.5°	784.3	783.7	784.7	782.2	785.3	785.1	784.1	784.5	786.6	786.4	786.6
5°	789.0	788.6	789.9	788.0	791.7	793.0	793.2	795.0	797.3	797.9	797.9
7.5°	801.0	801.0	801.6	799.1	801.6	801.4	800.4	802.2	804.5	804.7	804.5
10°	821.6	821.8	820.8	814.4	812.3	806.8	801.6	801.8	804.7	807.0	807.6
12.5°	847.6	846.8	842.2	830.5	821.8	810.5	805.1	804.9	807.8	809.7	810.3
15°	877.3	875.0	863.3	844.1	828.8	817.7	809.0	807.0	805.3	803.3	803.5
17.5°	905.3	900.2	880.6	854.0	837.9	823.1	806.4	793.0	783.7	778.3	776.7
20°	933.8	923.7	895.4	863.3	842.9	815.8	783.7	756.5	739.6	731.7	730.3
22.5°	959.8	943.5	909.2	873.0	838.9	791.5	741.0	701.4	677.9	667.4	668.2
25°	985.1	962.4	923.7	879.8	819.1	748.6	681.6	633.0	605.8	594.0	593.6
27.5°	1007.4	981.6	939.4	874.2	782.2	687.6	611.3	563.9	541.2	531.1	529.5
30°	1033.0	1005.7	960.2	853.0	728.2	617.1	542.7	509.3	493.2	483.1	481.2
32.5°	1064.1	1038.5	977.3	814.4	659.2	543.5	489.1	465.8	451.1	439.8	437.7
35°	1109.4	1081.8	981.6	759.2	583.3	485.3	449.7	425.8	406.0	391.3	389.9
37.5°	1166.4	1136.0	971.7	687.6	509.7	447.6	416.9	387.4	361.6	341.0	337.7
40°	1248.4	1202.6	944.3	605.1	455.4	418.5	384.9	351.3	319.4	295.2	290.5
42.5°	1347.0	1280.8	902.2	523.1	415.7	389.1	353.2	311.5	281.0	263.9	261.4
45°	1472.3	1362.0	843.9	451.3	376.5	359.6	319.0	280.6	261.6	249.1	247.0
47.5°	1615.4	1453.1	782.7	393.0	343.3	331.9	291.5	266.8	251.7	241.8	240.0
50°	1791.3	1556.0	717.7	345.1	309.9	298.8	278.5	259.2	247.2	239.6	237.7
52.5°	1989.6	1672.1	670.9	307.4	282.3	274.2	271.7	255.0	245.4	239.6	237.7
55°	2203.2	1790.3	620.4	275.7	258.3	260.6	267.2	255.5	248.9	241.8	239.2
57.5°	2417.0	1912.3	564.1	248.9	239.4	250.5	264.1	256.3	250.7	243.9	241.4
60°	2586.1	1989.6	476.9	226.4	224.3	239.4	256.7	250.1	242.9	243.1	242.7
62.5°	2665.1	1985.5	380.6	206.4	209.3	224.3	244.7	240.4	234.4	242.5	243.1
65°	2620.7	1886.5	296.3	188.2	193.2	208.7	232.4	235.7	237.7	253.2	255.2
67.5°	2434.8	1694.0	229.5	172.4	178.6	197.9	233.6	256.7	259.4	275.7	275.5
69°	2242.4	1513.4	199.4	164.1	171.3	200.6	249.7	270.1	260.0	277.3	274.8
70°	2081.2	1370.5	183.3	158.6	168.0	205.4	260.4	269.9	256.9	271.7	267.6
72.5°	1602.8	985.9	155.5	148.2	156.9	196.5	263.5	263.9	249.7	252.6	245.6
75°	1099.3	623.1	135.7	134.2	140.0	177.1	253.6	252.2	230.9	226.8	221.0
77.5°	606.2	316.5	115.3	120.8	124.7	156.9	230.5	228.4	210.9	202.3	200.2
80°	233.8	138.6	97.3	107.4	109.9	135.9	202.1	200.2	185.6	174.4	171.3
82.5°	88.2	72.6	80.4	93.0	92.2	112.2	171.1	170.1	155.9	139.6	134.6
85°	40.8	43.5	63.7	76.7	70.7	83.1	136.9	138.8	121.4	102.1	102.1
87.5°	17.3	24.3	45.2	57.9	47.6	56.1	100.4	95.9	88.0	61.0	57.3
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)