

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: P317345

Luminaire Tested: **GAN-SA1A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4251 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

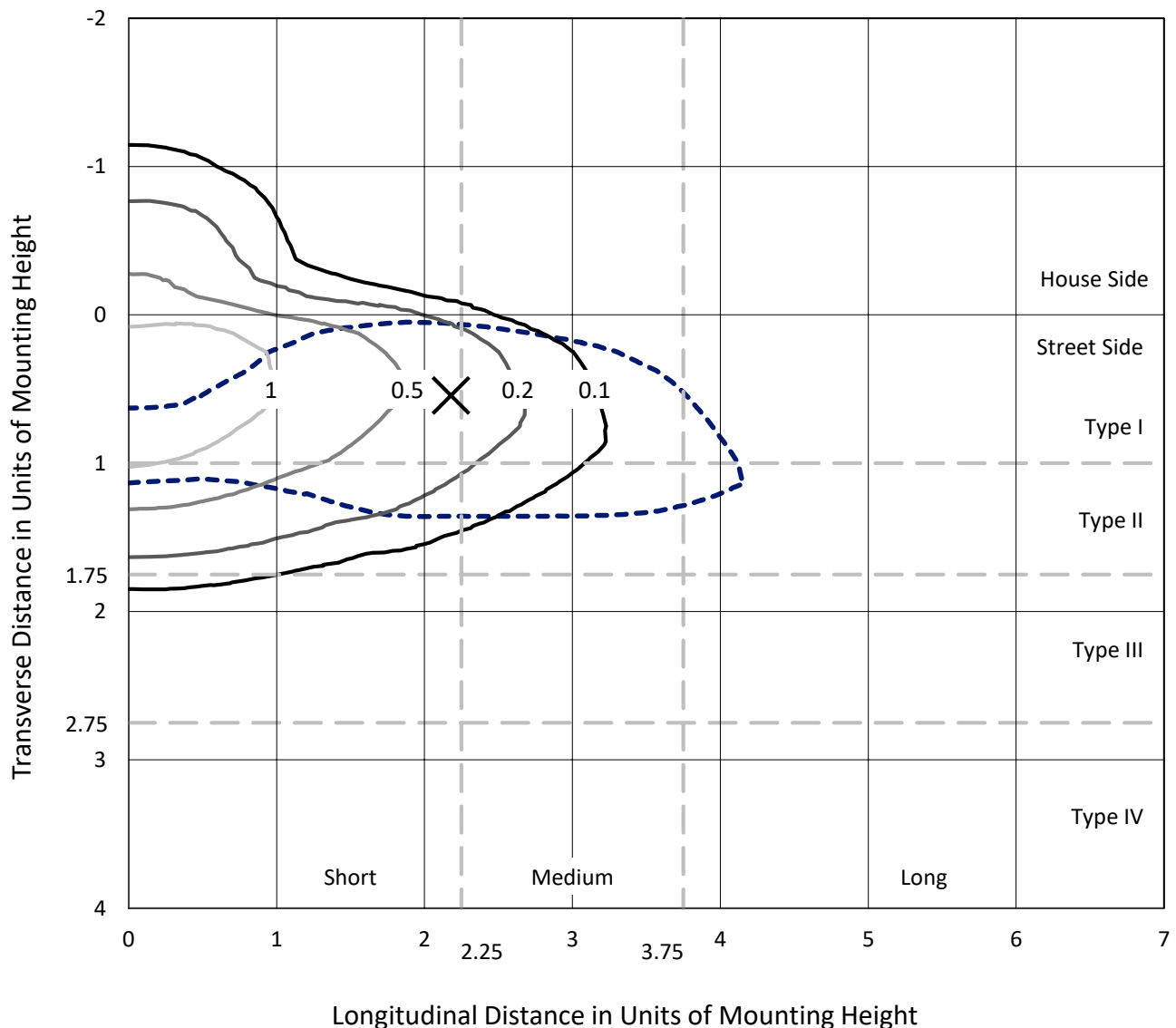
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

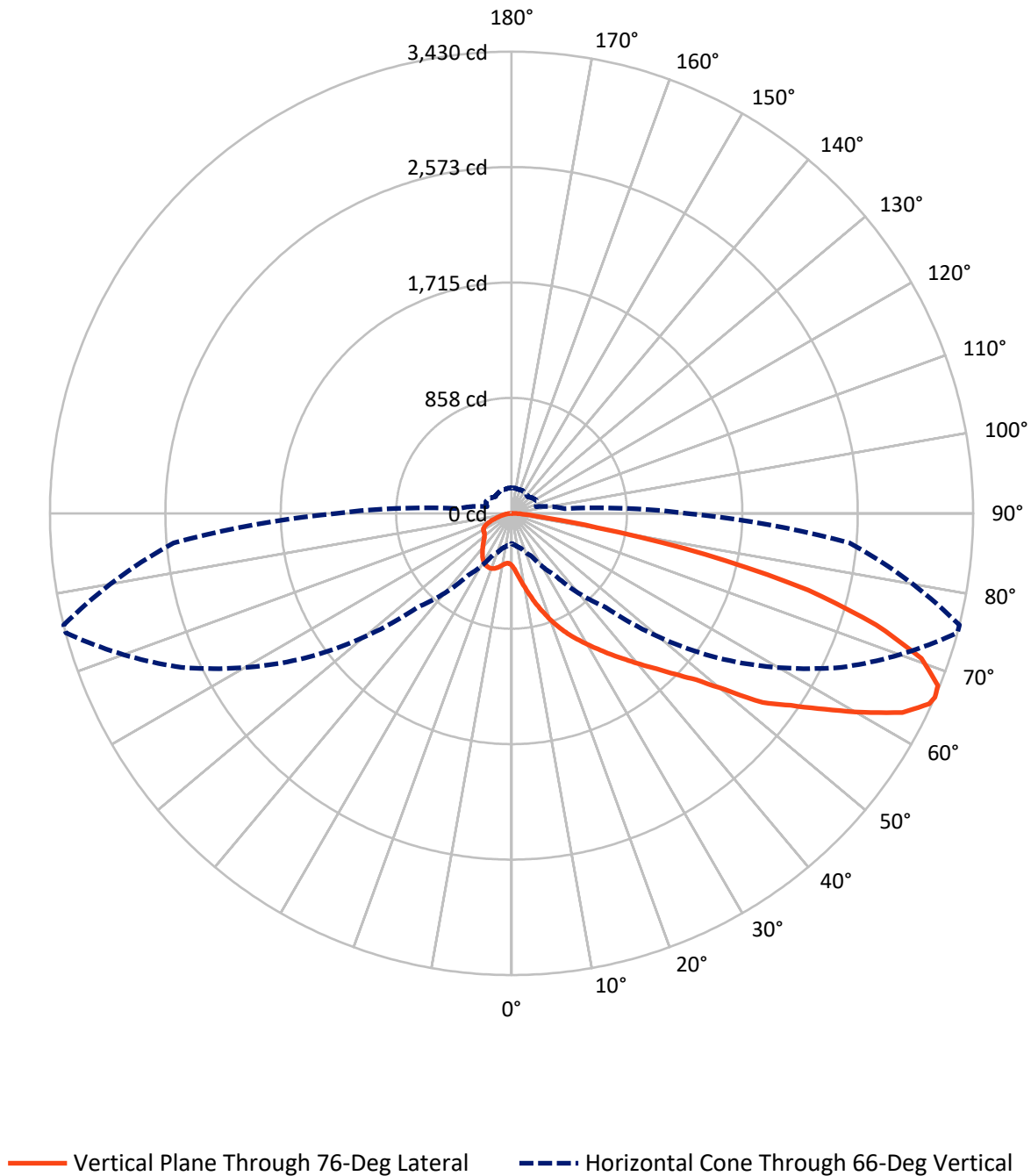
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	715.3	0.0	715.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3535.7	0.0	3535.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	4251.0	0.0	4251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.1
10°-20°	185.4	4.4
20°-30°	360.2	8.5
30°-40°	588.0	13.8
40°-50°	803.4	18.9
50°-60°	935.7	22.0
60°-70°	838.9	19.7
70°-80°	424.0	10.0
80°-90°	68.5	1.6
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°	4251.0	100.0
0°-180°	4251.0	100.0

Coefficient of Utilization



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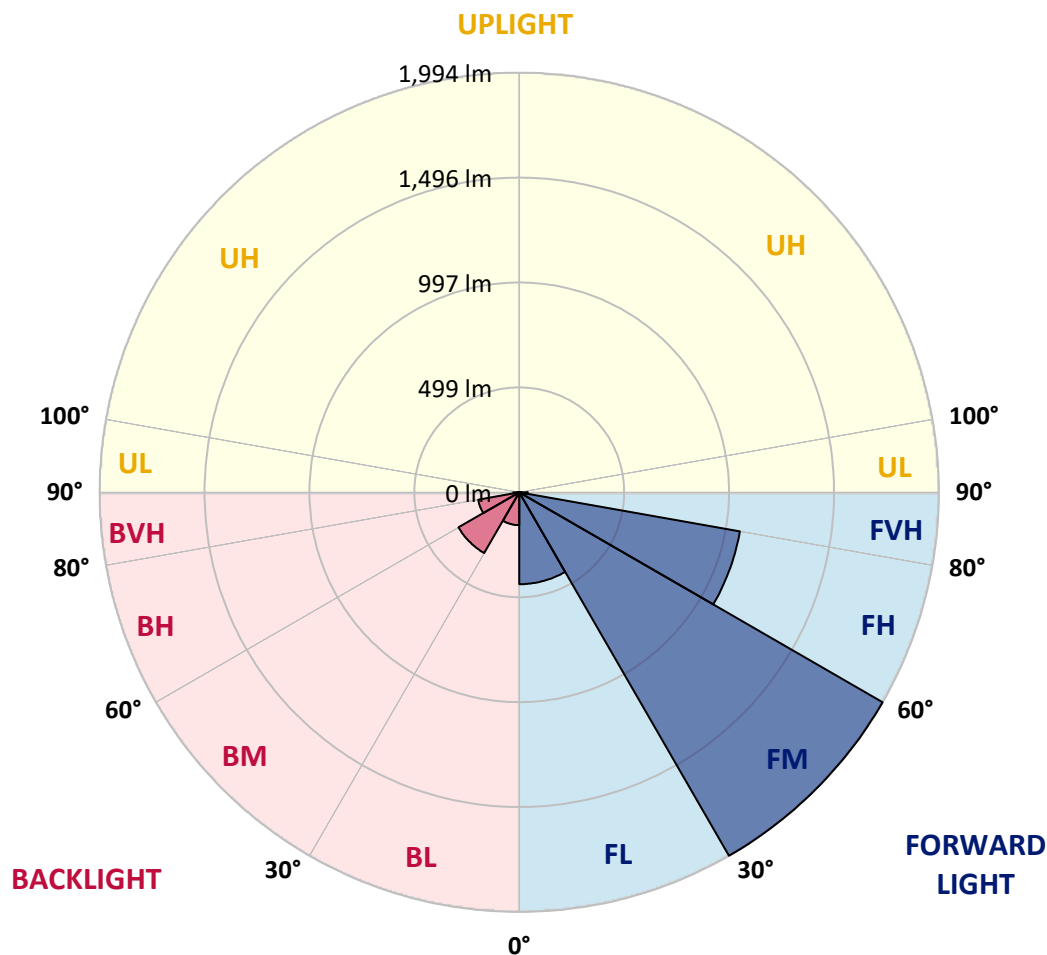
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.6	10.3			
FM	(30°-60°)	1994.0	46.9			
FH	(60°-80°)	1064.7	25.0			G1/1800
FVH	(80°-90°)	40.4	1.0			G1/100
BL	(0°-30°)	156.0	3.7	B1/500		
BM	(30°-60°)	333.1	7.8	B1/1000		
BH	(60°-80°)	198.2	4.7	B1/500		G1/500
BVH	(80°-90°)	28.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2
2.5°	515.4	507.6	506.8	495.4	492.8	471.1	455.0	438.3	419.2	415.5	400.5
5°	662.0	661.3	651.3	632.7	618.1	580.9	544.1	505.1	462.4	455.5	421.7
7.5°	793.9	792.7	785.1	765.0	744.0	698.2	645.7	585.9	516.7	506.4	450.4
10°	894.0	893.6	891.0	876.3	858.4	814.5	756.5	675.0	579.7	565.7	486.3
12.5°	971.4	972.3	974.0	968.8	960.3	922.9	863.4	769.4	647.0	633.1	526.3
15°	1023.8	1026.4	1035.3	1042.7	1047.2	1024.2	966.6	865.9	722.3	705.7	570.6
17.5°	1050.2	1053.1	1068.5	1090.7	1111.2	1108.9	1063.2	958.0	794.6	778.6	618.3
20°	1073.0	1075.2	1092.5	1119.2	1155.4	1171.4	1145.7	1046.6	873.8	854.8	668.8
22.5°	1139.1	1141.8	1147.0	1162.2	1194.2	1223.7	1211.3	1130.4	946.4	928.7	716.7
25°	1266.7	1270.0	1258.7	1245.9	1251.9	1272.4	1274.8	1206.9	1020.0	1000.0	768.2
27.5°	1420.4	1425.1	1405.9	1372.9	1344.0	1336.1	1333.3	1269.6	1090.3	1067.1	819.1
30°	1570.9	1579.1	1554.1	1511.3	1458.3	1421.1	1393.5	1330.9	1159.6	1137.4	867.2
32.5°	1717.9	1714.6	1678.4	1636.6	1574.5	1527.9	1461.2	1396.7	1237.5	1212.0	915.0
35°	1818.7	1819.8	1786.2	1736.6	1677.4	1641.6	1551.8	1467.7	1317.0	1293.5	969.2
37.5°	1904.4	1899.1	1861.0	1814.6	1763.7	1748.4	1657.9	1545.9	1403.2	1377.5	1027.0
40°	1933.0	1926.8	1901.8	1868.5	1827.6	1826.3	1775.0	1634.5	1500.6	1475.2	1092.0
42.5°	1915.7	1907.7	1897.5	1888.4	1875.8	1881.6	1884.9	1738.4	1607.7	1579.3	1167.4
45°	1851.7	1839.8	1847.0	1866.7	1894.0	1926.6	1984.2	1853.5	1727.6	1703.8	1255.8
47.5°	1753.4	1742.6	1765.1	1807.4	1881.6	1964.2	2078.2	1980.5	1870.8	1847.1	1381.8
50°	1615.2	1618.4	1650.6	1727.5	1839.6	1981.5	2193.9	2148.6	2078.9	2056.8	1553.7
52.5°	1388.3	1388.9	1479.5	1605.8	1765.1	1972.5	2258.1	2363.5	2363.0	2336.3	1717.4
55°	1177.6	1190.5	1262.2	1430.0	1644.5	1936.7	2303.0	2468.0	2549.6	2518.3	1869.9
57.5°	971.8	979.3	1047.3	1215.9	1472.3	1841.3	2349.0	2593.4	2764.7	2744.9	2059.5
60°	737.7	749.3	819.6	975.3	1252.1	1672.1	2353.4	2724.3	3021.7	3001.8	2271.3
62.5°	478.8	498.8	564.6	710.5	985.7	1428.6	2252.9	2809.8	3265.3	3258.2	2459.2
65°	275.2	290.2	336.0	448.5	680.0	1122.9	2014.1	2776.9	3415.3	3411.2	2529.4
66°	224.8	234.2	269.3	350.5	561.1	986.1	1875.3	2707.5	3430.1	3430.3	2521.4
67.5°	179.8	184.0	199.7	251.0	414.0	781.6	1627.2	2554.4	3411.6	3416.7	2469.3
70°	148.8	151.0	155.9	168.3	226.0	471.3	1155.0	2156.5	3226.2	3230.1	2265.9
72.5°	133.5	134.8	136.7	138.4	159.5	263.4	705.4	1725.2	2828.6	2833.7	1956.1
75°	120.9	121.7	121.4	121.5	133.8	167.8	364.5	1288.0	2287.1	2277.0	1498.4
77.5°	106.2	106.9	105.5	105.8	118.3	129.0	181.4	901.7	1543.5	1472.2	844.3
80°	89.8	90.3	89.8	90.8	103.0	97.4	105.5	507.3	682.5	645.5	300.2
82.5°	67.8	70.3	72.0	76.1	84.9	69.3	70.6	197.6	207.8	197.9	92.1
85°	29.7	36.2	54.3	58.2	63.8	41.6	46.3	80.5	84.6	82.0	33.5
87.5°	7.8	8.5	26.8	33.8	35.4	18.8	24.1	36.7	38.7	36.7	11.1
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°	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2	388.2
2.5°	392.5	385.5	372.8	361.5	353.0	347.2	341.5	338.6	336.8	335.1	335.4
5°	405.1	390.8	369.0	353.6	344.9	339.4	336.5	335.4	334.7	332.9	332.9
7.5°	424.0	403.8	373.8	357.9	351.1	346.9	345.2	344.6	343.8	341.7	342.0
10°	447.8	419.5	383.7	368.3	362.1	357.5	355.0	354.2	352.6	350.3	350.5
12.5°	475.8	439.0	396.9	380.7	373.2	367.0	363.0	360.5	357.8	354.7	354.9
15°	506.4	460.2	411.0	391.8	381.6	372.9	366.4	362.2	357.9	354.2	354.0
17.5°	537.4	480.7	421.8	397.9	384.0	372.6	363.8	357.3	352.0	347.4	346.9
20°	570.9	499.2	427.9	397.3	379.4	365.8	354.2	346.1	340.2	335.5	334.8
22.5°	605.0	516.5	428.9	391.4	369.2	352.6	340.3	331.4	325.3	320.5	318.8
25°	636.1	529.9	424.7	380.0	354.9	337.0	325.0	315.9	311.0	305.4	303.6
27.5°	664.6	539.3	416.4	365.4	338.9	321.2	310.0	302.2	296.9	292.5	291.1
30°	690.1	544.4	402.6	348.1	322.4	306.4	296.9	291.5	286.9	281.4	280.4
32.5°	714.4	544.4	385.0	329.2	306.1	293.3	287.6	284.3	279.1	273.8	272.3
35°	738.6	541.0	364.3	309.4	291.1	283.9	283.6	279.7	271.7	264.5	262.7
37.5°	764.2	534.3	340.9	290.9	278.8	279.7	282.1	273.5	262.2	252.0	249.2
40°	793.0	524.9	316.6	274.9	268.6	277.8	278.2	264.5	242.6	233.2	230.8
42.5°	826.9	515.5	294.1	260.8	260.5	272.2	270.9	245.2	232.1	227.3	226.0
45°	871.5	510.2	272.8	247.4	254.1	263.1	258.3	234.5	229.0	226.3	225.1
47.5°	941.8	512.9	253.1	236.7	247.8	254.0	234.9	230.2	226.3	223.0	221.8
50°	1029.8	511.3	237.3	229.3	240.6	244.5	224.4	224.6	222.5	218.8	217.1
52.5°	1096.1	498.9	227.0	225.1	234.2	227.6	217.8	219.1	218.1	212.6	210.7
55°	1160.0	488.2	221.8	223.5	229.6	206.5	210.0	213.2	212.1	206.8	205.9
57.5°	1239.5	486.2	218.6	224.0	225.7	196.0	202.5	206.7	205.9	203.6	203.2
60°	1337.0	486.8	215.8	224.7	221.4	188.2	195.4	200.7	201.2	200.7	200.5
62.5°	1390.5	471.1	208.5	222.7	213.7	181.4	188.0	195.8	196.0	196.8	196.7
65°	1345.0	424.0	195.1	215.6	200.9	175.8	181.7	190.2	188.0	191.9	191.9
66°	1300.9	396.9	188.5	211.0	195.4	173.6	179.7	187.3	184.6	189.9	189.9
67.5°	1210.7	351.1	176.5	201.2	187.6	170.6	177.4	182.6	178.8	186.7	186.2
70°	1045.9	271.6	152.4	179.0	174.8	166.1	174.2	173.0	167.6	179.7	177.4
72.5°	881.8	206.4	122.4	149.8	155.3	160.5	169.7	160.9	154.0	162.5	157.4
75°	684.2	155.1	96.7	116.5	131.2	151.7	164.4	146.9	137.0	136.1	133.3
77.5°	369.9	106.5	76.6	88.9	104.2	140.7	160.8	131.9	116.9	113.4	111.3
80°	146.5	69.3	55.7	67.4	72.9	124.8	152.1	114.4	96.4	92.9	89.6
82.5°	60.5	41.0	35.9	45.2	47.5	106.8	136.5	93.8	74.5	103.0	109.4
85°	26.0	22.5	21.4	23.4	26.8	74.9	108.7	71.6	80.4	71.7	57.0
87.5°	7.8	9.5	9.1	8.9	9.8	17.9	57.9	39.8	59.0	22.4	16.7
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)