

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: P317545

Luminaire Tested: **GAN-SA1A-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317545
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-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3737 lumens
Efficiency: N/A
Efficacy: 109.9 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

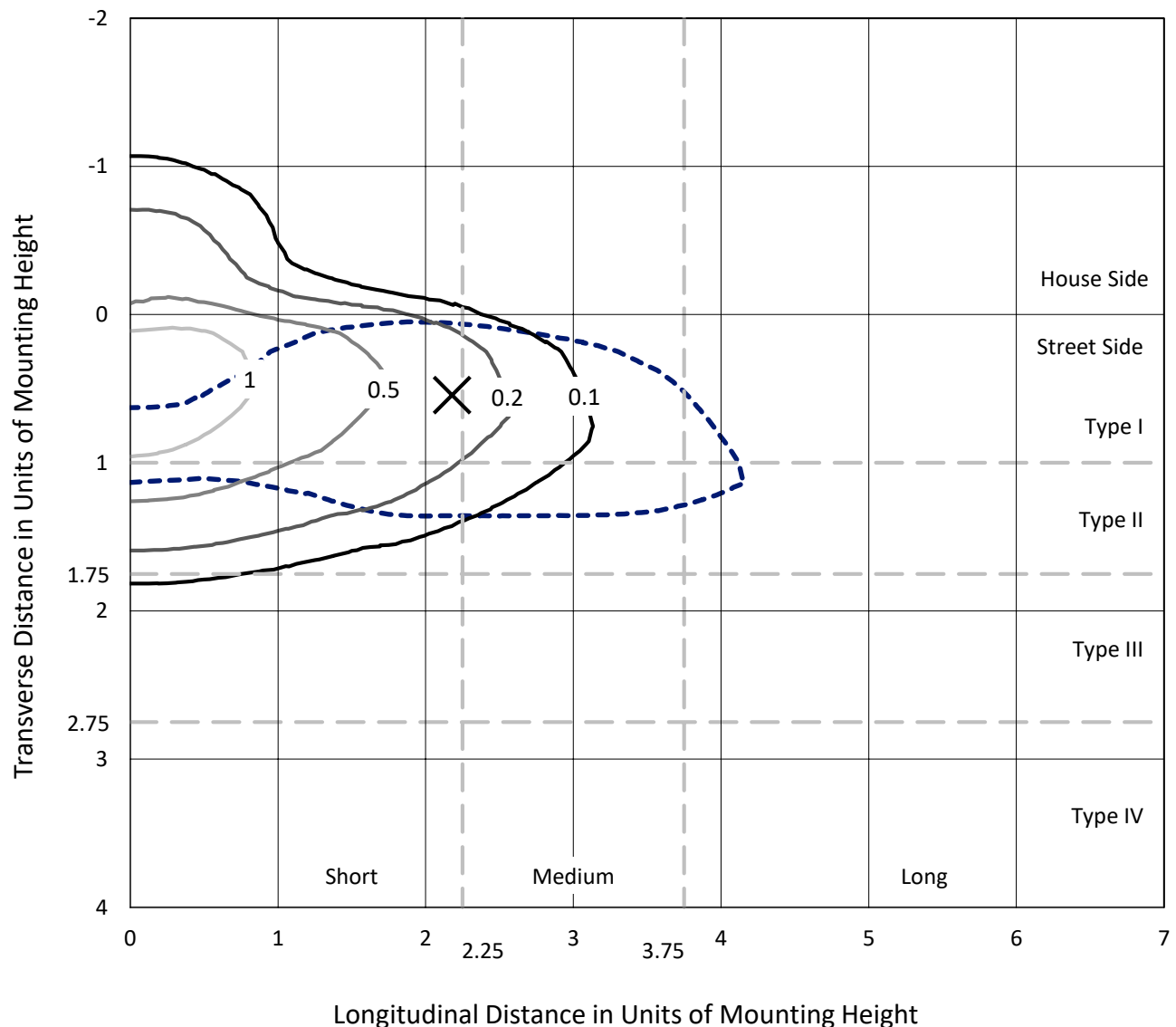
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

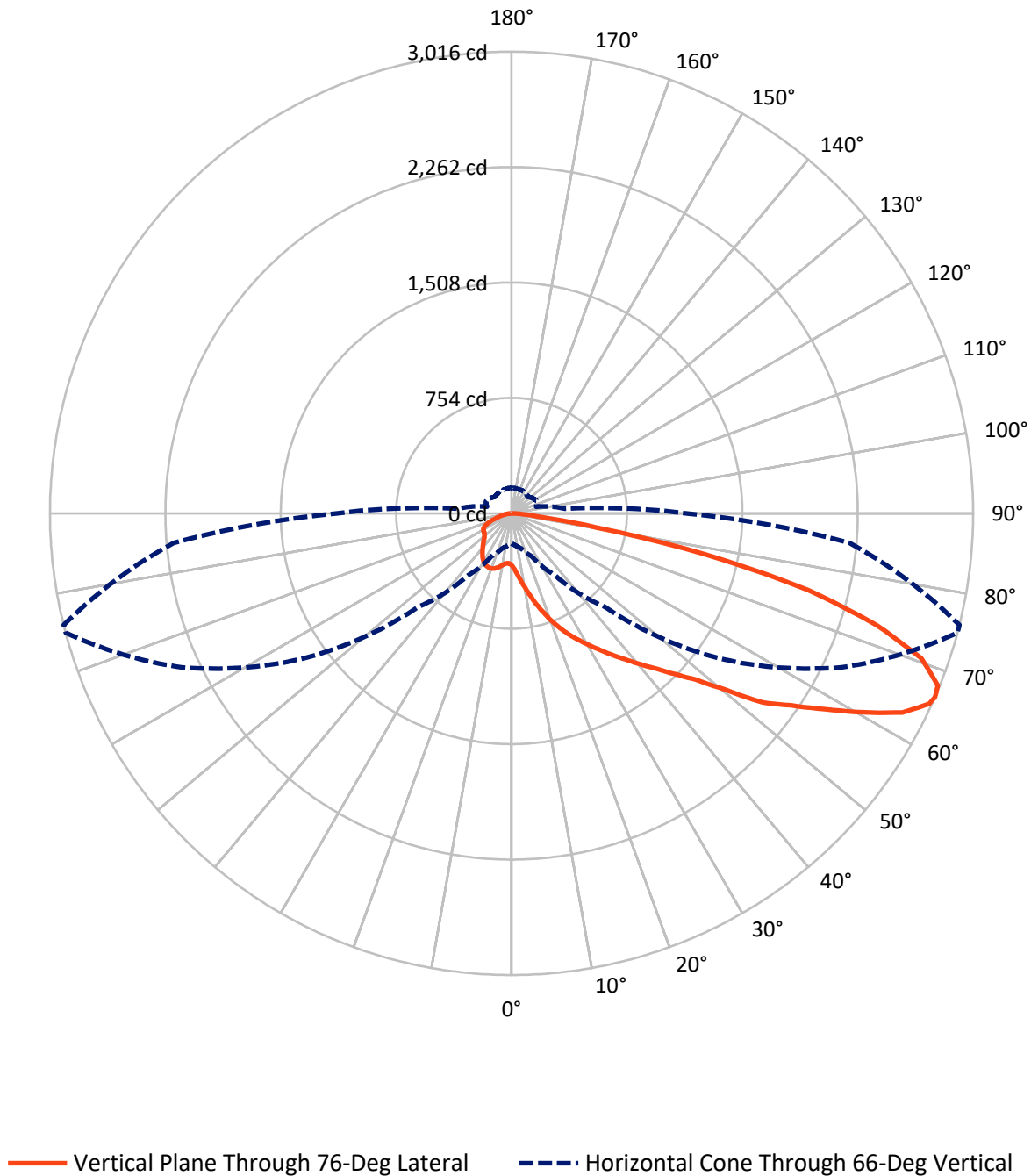
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	628.8	0.0	628.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3108.2	0.0	3108.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	3737.0	0.0	3737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.1
10°-20°	163.0	4.4
20°-30°	316.7	8.5
30°-40°	516.9	13.8
40°-50°	706.2	18.9
50°-60°	822.6	22.0
60°-70°	737.5	19.7
70°-80°	372.7	10.0
80°-90°	60.2	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°	3737.0	100.0
0°-180°	3737.0	100.0

Coefficient of Utilization



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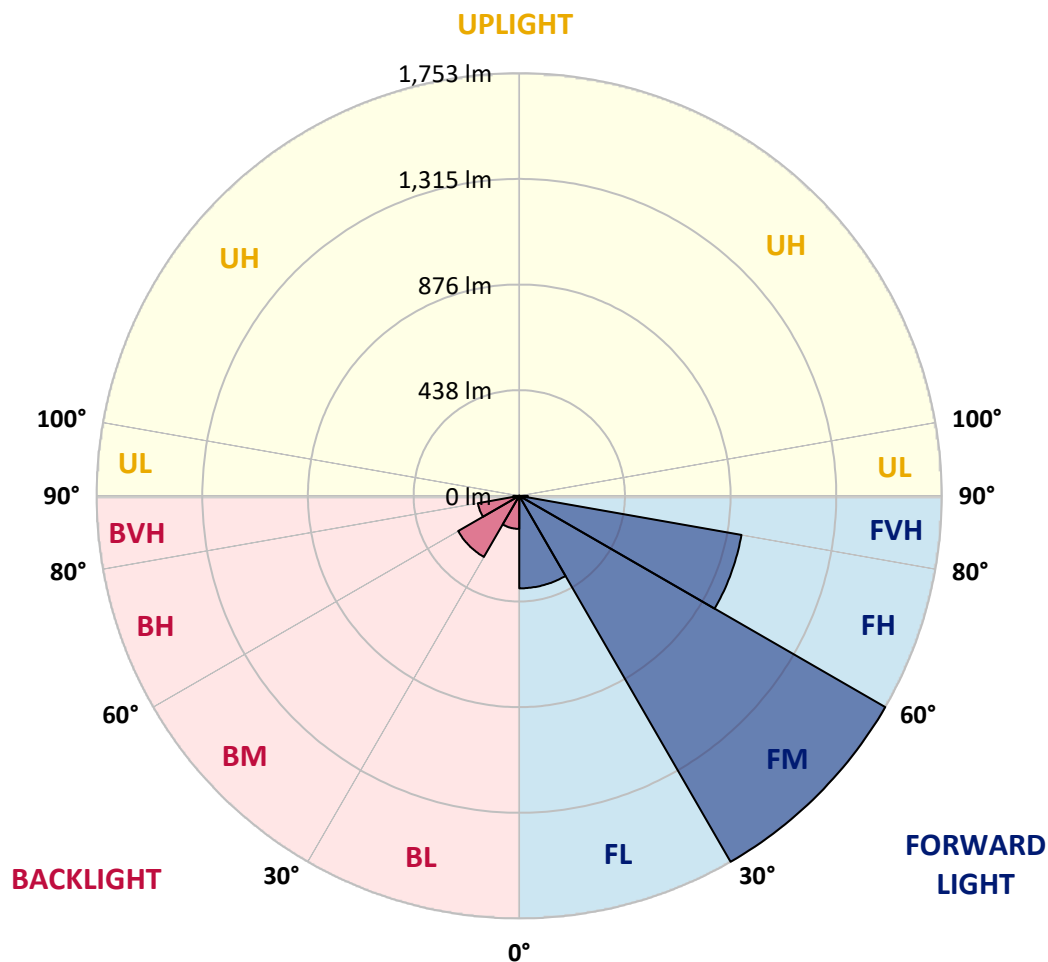
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.8	10.3			
FM	(30°-60°)	1752.9	46.9			
FH	(60°-80°)	936.0	25.0			G1/1800
FVH	(80°-90°)	35.5	1.0			G1/100
BL	(0°-30°)	137.1	3.7	B1/500		
BM	(30°-60°)	292.8	7.8	B1/1000		
BH	(60°-80°)	174.2	4.7	B1/500		G1/500
BVH	(80°-90°)	24.6	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°	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3
2.5°	453.0	446.2	445.6	435.5	433.3	414.1	400.0	385.3	368.5	365.3	352.1
5°	581.9	581.3	572.6	556.2	543.4	510.6	478.3	444.0	406.5	400.4	370.7
7.5°	697.9	696.9	690.2	672.5	654.0	613.8	567.6	515.1	454.2	445.2	396.0
10°	785.9	785.6	783.3	770.3	754.6	716.0	665.0	593.4	509.6	497.3	427.5
12.5°	853.9	854.7	856.2	851.7	844.2	811.3	759.0	676.3	568.7	556.6	462.7
15°	900.0	902.3	910.1	916.6	920.5	900.4	849.8	761.2	635.0	620.4	501.6
17.5°	923.2	925.7	939.3	958.9	976.9	974.8	934.6	842.1	698.5	684.4	543.5
20°	943.3	945.2	960.4	983.9	1015.7	1029.8	1007.2	920.0	768.2	751.4	587.9
22.5°	1001.4	1003.8	1008.3	1021.7	1049.8	1075.7	1064.8	993.7	832.0	816.4	630.0
25°	1113.5	1116.4	1106.5	1095.2	1100.6	1118.6	1120.6	1061.0	896.7	879.1	675.3
27.5°	1248.6	1252.8	1235.9	1206.9	1181.5	1174.5	1172.1	1116.0	958.5	938.1	720.1
30°	1380.9	1388.2	1366.2	1328.6	1282.0	1249.3	1225.0	1170.0	1019.4	999.8	762.3
32.5°	1510.2	1507.3	1475.5	1438.7	1384.1	1343.1	1284.5	1227.8	1087.9	1065.4	804.3
35°	1598.8	1599.8	1570.2	1526.6	1474.6	1443.1	1364.2	1290.2	1157.8	1137.1	852.0
37.5°	1674.1	1669.4	1636.0	1595.2	1550.4	1537.0	1457.4	1359.0	1233.5	1210.9	902.8
40°	1699.3	1693.8	1671.9	1642.5	1606.6	1605.5	1560.3	1436.9	1319.2	1296.8	960.0
42.5°	1684.0	1677.1	1668.0	1660.1	1649.0	1654.1	1657.0	1528.2	1413.3	1388.3	1026.2
45°	1627.8	1617.3	1623.6	1641.0	1665.0	1693.7	1744.3	1629.4	1518.7	1497.8	1104.0
47.5°	1541.4	1531.9	1551.7	1588.9	1654.1	1726.7	1826.9	1741.0	1644.6	1623.8	1214.8
50°	1419.9	1422.7	1451.0	1518.6	1617.2	1741.9	1928.6	1888.8	1827.5	1808.1	1365.9
52.5°	1220.5	1221.0	1300.6	1411.6	1551.7	1734.0	1985.1	2077.7	2077.3	2053.9	1509.7
55°	1035.2	1046.5	1109.6	1257.1	1445.7	1702.6	2024.5	2169.6	2241.4	2213.8	1643.8
57.5°	854.3	860.9	920.7	1068.9	1294.3	1618.7	2065.0	2279.8	2430.4	2413.0	1810.5
60°	648.5	658.7	720.5	857.4	1100.7	1469.9	2068.8	2394.9	2656.3	2638.8	1996.6
62.5°	420.9	438.5	496.3	624.6	866.5	1255.9	1980.5	2470.1	2870.5	2864.3	2161.8
65°	241.9	255.1	295.3	394.3	597.8	987.2	1770.6	2441.2	3002.3	2998.8	2223.6
66°	197.7	205.9	236.7	308.2	493.3	866.9	1648.5	2380.2	3015.4	3015.5	2216.5
67.5°	158.1	161.8	175.6	220.6	364.0	687.1	1430.4	2245.5	2999.1	3003.6	2170.7
70°	130.8	132.7	137.0	147.9	198.7	414.3	1015.3	1895.8	2836.1	2839.5	1991.9
72.5°	117.4	118.5	120.1	121.7	140.2	231.5	620.1	1516.6	2486.6	2491.0	1719.6
75°	106.3	106.9	106.7	106.8	117.6	147.5	320.5	1132.3	2010.6	2001.7	1317.3
77.5°	93.4	94.0	92.7	93.0	104.0	113.4	159.5	792.7	1356.8	1294.2	742.2
80°	78.9	79.4	78.9	79.8	90.6	85.6	92.7	445.9	600.0	567.5	263.9
82.5°	59.6	61.8	63.3	66.9	74.6	60.9	62.0	173.7	182.7	173.9	80.9
85°	26.1	31.8	47.7	51.1	56.1	36.5	40.7	70.8	74.3	72.1	29.4
87.5°	6.9	7.5	23.6	29.7	31.1	16.5	21.2	32.2	34.0	32.2	9.8
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°	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3	341.3
2.5°	345.1	338.9	327.7	317.8	310.3	305.2	300.2	297.6	296.1	294.6	294.8
5°	356.1	343.6	324.4	310.8	303.2	298.4	295.9	294.8	294.2	292.7	292.7
7.5°	372.7	355.0	328.6	314.6	308.7	305.0	303.5	303.0	302.2	300.4	300.7
10°	393.7	368.8	337.3	323.8	318.3	314.2	312.1	311.3	309.9	307.9	308.2
12.5°	418.3	385.9	348.9	334.7	328.1	322.6	319.1	316.9	314.5	311.8	312.0
15°	445.2	404.6	361.3	344.4	335.4	327.8	322.1	318.4	314.6	311.3	311.2
17.5°	472.5	422.6	370.8	349.8	337.6	327.6	319.8	314.1	309.4	305.4	305.0
20°	501.9	438.8	376.2	349.3	333.5	321.6	311.3	304.2	299.0	295.0	294.3
22.5°	531.8	454.1	377.0	344.1	324.5	309.9	299.2	291.3	286.0	281.8	280.2
25°	559.2	465.9	373.4	334.0	312.0	296.2	285.7	277.7	273.4	268.5	266.9
27.5°	584.2	474.1	366.0	321.2	297.9	282.4	272.5	265.7	261.0	257.2	255.9
30°	606.7	478.5	354.0	306.0	283.4	269.3	261.0	256.3	252.2	247.4	246.5
32.5°	628.0	478.5	338.5	289.4	269.1	257.8	252.8	249.9	245.4	240.7	239.4
35°	649.3	475.6	320.2	272.0	255.9	249.5	249.3	245.9	238.9	232.5	230.9
37.5°	671.8	469.7	299.7	255.8	245.1	245.9	248.0	240.4	230.5	221.5	219.1
40°	697.1	461.4	278.3	241.7	236.1	244.2	244.6	232.5	213.3	205.0	202.9
42.5°	726.9	453.2	258.6	229.2	229.0	239.3	238.1	215.5	204.0	199.8	198.7
45°	766.2	448.5	239.8	217.5	223.4	231.3	227.1	206.2	201.3	198.9	197.9
47.5°	827.9	450.9	222.5	208.1	217.8	223.3	206.5	202.4	198.9	196.0	195.0
50°	905.3	449.5	208.6	201.6	211.5	214.9	197.3	197.4	195.6	192.3	190.8
52.5°	963.6	438.6	199.6	197.9	205.9	200.1	191.4	192.6	191.7	186.9	185.2
55°	1019.8	429.2	195.0	196.5	201.8	181.5	184.6	187.4	186.5	181.8	181.0
57.5°	1089.7	427.4	192.2	196.9	198.4	172.3	178.0	181.7	181.0	179.0	178.6
60°	1175.3	427.9	189.7	197.5	194.6	165.4	171.8	176.5	176.9	176.5	176.2
62.5°	1222.4	414.1	183.3	195.8	187.9	159.5	165.3	172.2	172.3	173.0	172.9
65°	1182.4	372.7	171.5	189.5	176.6	154.5	159.7	167.2	165.3	168.7	168.7
66°	1143.6	348.9	165.7	185.5	171.8	152.6	157.9	164.7	162.3	167.0	167.0
67.5°	1064.3	308.7	155.2	176.9	164.9	150.0	155.9	160.5	157.2	164.2	163.7
70°	919.4	238.8	134.0	157.3	153.6	146.0	153.1	152.1	147.3	157.9	155.9
72.5°	775.2	181.4	107.6	131.7	136.5	141.1	149.2	141.5	135.4	142.9	138.4
75°	601.5	136.4	85.0	102.4	115.3	133.3	144.5	129.2	120.4	119.6	117.2
77.5°	325.2	93.6	67.4	78.2	91.6	123.7	141.3	116.0	102.8	99.7	97.8
80°	128.8	60.9	49.0	59.2	64.1	109.7	133.7	100.6	84.7	81.7	78.8
82.5°	53.2	36.0	31.6	39.7	41.7	93.9	120.0	82.5	65.5	90.6	96.2
85°	22.8	19.8	18.8	20.6	23.6	65.8	95.5	62.9	70.7	63.1	50.1
87.5°	6.9	8.4	8.0	7.9	8.6	15.7	50.9	35.0	51.9	19.7	14.7
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)