

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: P319145

Luminaire Tested: **GAN-SA1A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3562 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

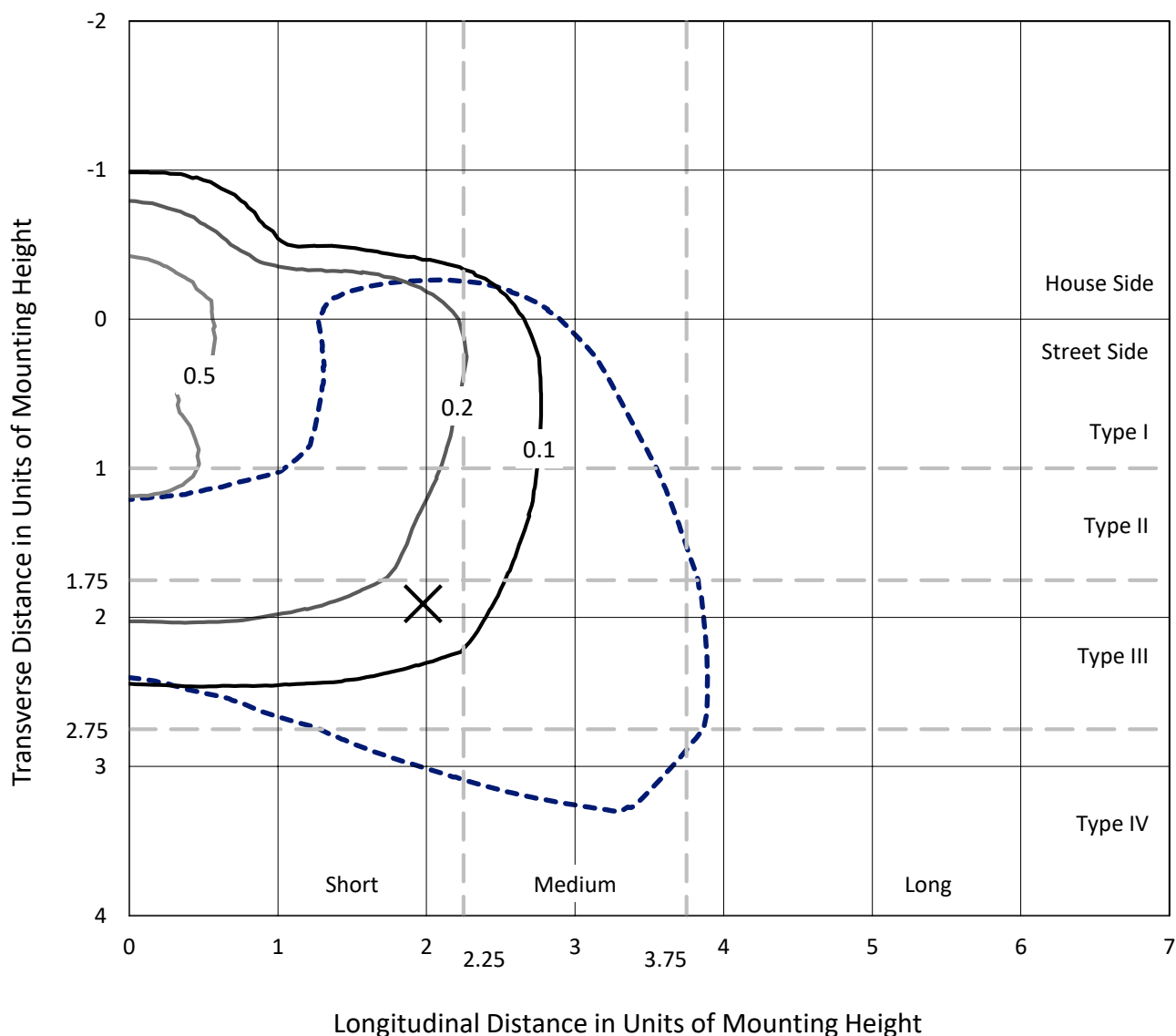
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

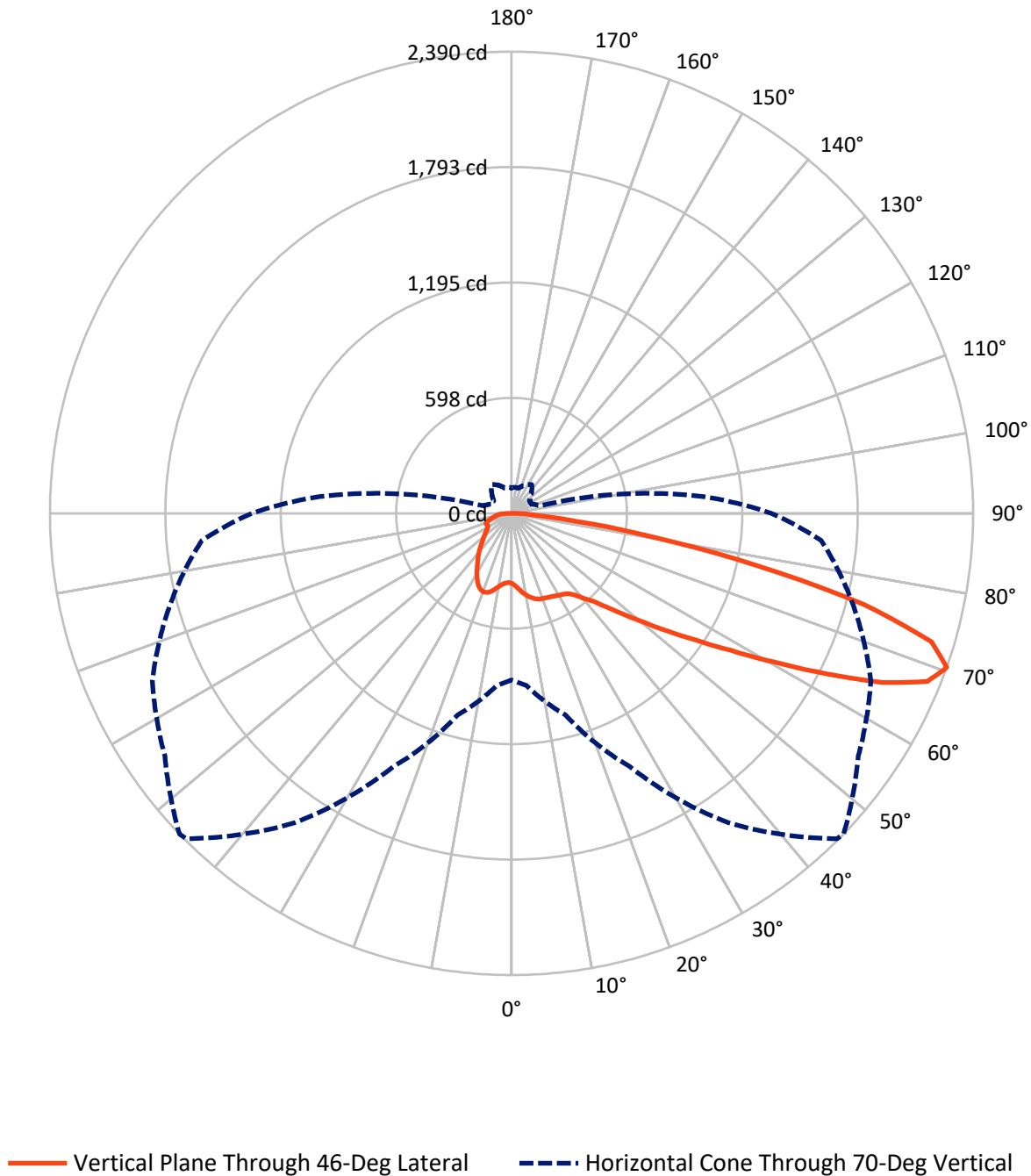
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	816.4	0.0	816.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2745.6	0.0	2745.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	3562.0	0.0	3562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.0
10°-20°	123.3	3.5
20°-30°	205.5	5.8
30°-40°	291.6	8.2
40°-50°	429.0	12.0
50°-60°	726.5	20.4
60°-70°	1031.2	29.0
70°-80°	626.5	17.6
80°-90°	91.4	2.6
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°	3562.0	100.0
0°-180°	3562.0	100.0

Coefficient of Utilization



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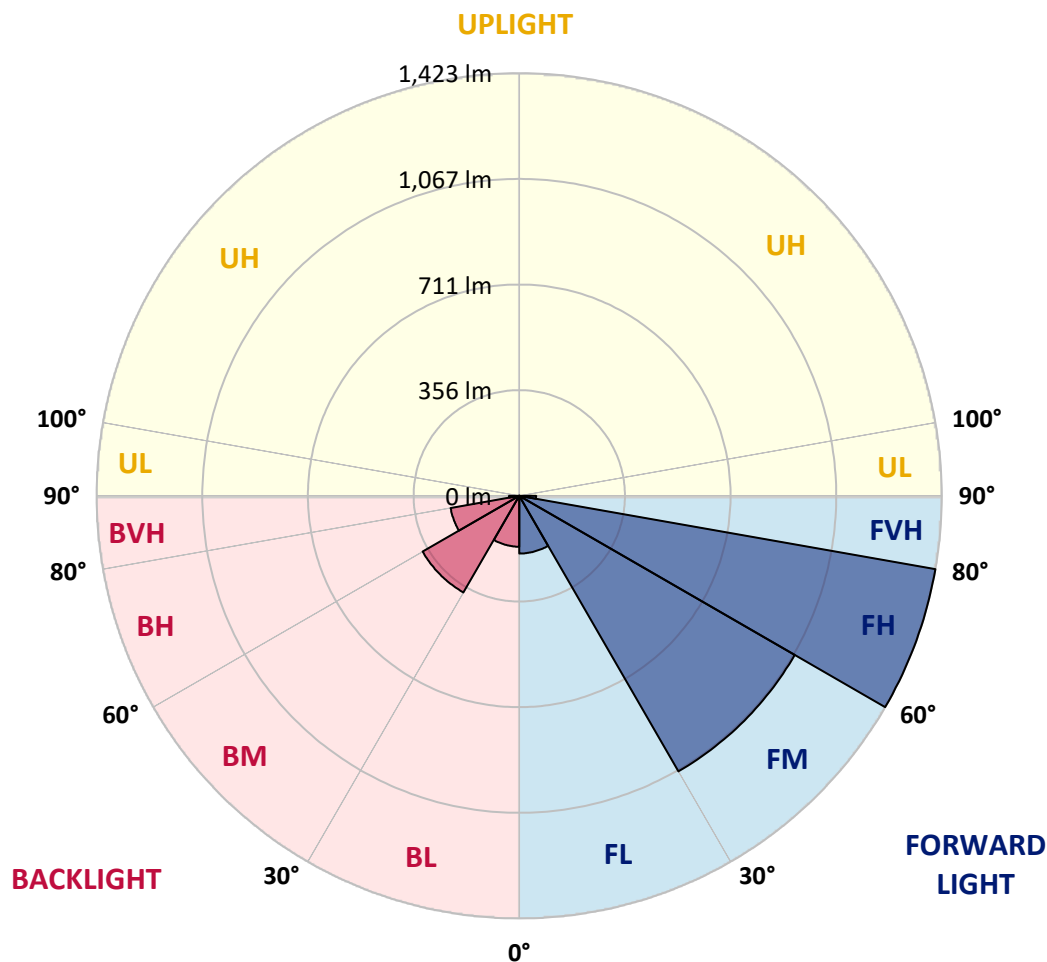
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.4	5.5			
FM	(30°-60°)	1071.3	30.1			
FH	(60°-80°)	1423.0	39.9			G1/1800
FVH	(80°-90°)	57.0	1.6			G1/100
BL	(0°-30°)	171.4	4.8	B1/500		
BM	(30°-60°)	375.8	10.6	B1/1000		
BH	(60°-80°)	234.7	6.6	B1/500		G1/500
BVH	(80°-90°)	34.5	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9
2.5°	381.1	381.3	381.8	380.6	377.2	376.2	375.8	372.3	370.0	366.6	363.6
5°	411.5	411.8	411.0	407.6	400.1	394.5	394.0	385.9	378.6	370.8	365.0
7.5°	443.4	443.7	441.4	434.9	424.3	414.6	414.0	403.0	391.9	380.1	371.3
10°	471.5	470.0	466.3	457.2	444.7	432.7	432.3	420.8	408.0	393.7	382.0
12.5°	490.3	489.1	484.2	473.2	459.4	448.5	447.5	436.9	424.5	408.9	394.8
15°	500.6	501.5	494.9	482.5	469.1	459.8	459.0	451.4	440.3	424.6	408.5
17.5°	502.0	502.7	496.4	484.1	473.1	466.8	466.4	461.4	453.3	438.2	421.4
20°	494.2	494.7	489.4	479.3	472.1	470.2	470.0	467.9	461.9	448.5	432.1
22.5°	482.8	483.2	479.4	472.1	469.7	472.7	473.6	472.7	468.5	455.9	440.5
25°	480.0	479.8	475.9	468.5	470.5	477.0	478.1	478.5	475.5	464.6	451.3
27.5°	493.6	492.7	485.3	473.3	474.7	482.5	483.9	487.5	485.7	476.0	463.5
30°	532.7	531.2	516.0	491.9	485.3	489.3	491.1	496.7	497.1	489.1	479.7
32.5°	598.8	596.9	569.6	526.5	503.2	496.3	498.0	506.4	510.9	504.7	494.6
35°	682.3	680.2	644.4	585.4	533.2	509.5	510.8	517.5	526.5	517.7	504.3
37.5°	769.3	764.3	729.8	654.6	580.9	537.9	537.9	538.8	543.1	524.8	515.8
40°	855.9	850.9	819.7	736.0	642.5	582.7	579.9	561.0	557.6	541.8	538.8
42.5°	936.3	934.9	916.4	828.1	714.9	626.7	622.8	590.7	591.5	581.7	581.8
45°	1021.9	1021.9	1006.9	921.0	799.3	697.4	693.5	646.3	653.6	649.1	660.0
47.5°	1091.7	1093.9	1091.9	1017.7	897.4	787.2	780.2	723.4	743.8	759.3	790.9
50°	1163.1	1166.5	1166.8	1123.9	1016.0	894.0	886.0	825.6	871.3	915.7	977.8
52.5°	1266.5	1274.2	1243.6	1229.9	1161.3	1020.8	1012.9	957.2	1033.5	1095.8	1202.7
55°	1362.5	1355.8	1334.0	1342.5	1316.9	1165.1	1159.2	1110.3	1214.1	1295.1	1433.9
57.5°	1414.4	1413.9	1435.9	1472.4	1484.6	1343.1	1338.1	1290.6	1417.8	1478.7	1651.0
60°	1475.4	1476.2	1530.6	1613.6	1663.8	1564.7	1562.5	1526.4	1615.7	1650.0	1821.3
62.5°	1483.9	1499.3	1592.9	1735.7	1831.6	1823.6	1828.5	1738.9	1792.7	1786.8	1948.5
65°	1385.8	1406.0	1575.4	1772.7	1998.3	2106.8	2111.3	1952.6	1932.2	1903.7	1993.9
67.5°	1184.6	1214.6	1398.7	1692.3	2053.3	2316.1	2322.5	2118.3	2048.1	1943.3	1884.5
70°	862.1	895.4	1080.6	1445.4	1955.3	2383.0	2390.2	2191.5	2052.4	1830.6	1608.7
72.5°	520.8	546.8	699.6	1064.1	1650.3	2261.1	2273.9	2098.6	1873.9	1550.6	1187.9
75°	228.7	245.8	338.3	613.2	1181.5	1870.8	1886.8	1796.3	1522.5	1126.8	702.1
77.5°	97.4	102.3	138.7	266.4	667.9	1278.4	1300.3	1312.5	1033.0	613.2	296.7
80°	60.7	62.7	78.5	120.6	312.6	718.0	741.6	772.2	513.0	225.4	103.6
82.5°	36.9	39.1	52.2	72.9	162.7	325.5	336.8	358.4	199.1	97.4	53.6
85°	22.2	23.8	31.9	46.1	92.6	128.0	127.9	141.4	93.7	62.7	28.3
87.5°	10.6	11.8	17.1	23.9	46.7	48.0	45.0	51.0	56.9	41.1	14.3
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°	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9
2.5°	362.7	362.2	360.6	359.4	359.1	358.4	357.8	358.1	358.6	358.8	358.8
5°	362.5	361.2	359.1	358.3	359.4	360.8	362.7	365.1	366.6	367.7	368.4
7.5°	368.4	365.8	363.5	363.0	365.2	369.1	373.3	378.4	381.9	384.4	384.8
10°	378.1	375.0	372.7	373.1	377.0	382.6	388.5	395.1	400.4	403.7	404.0
12.5°	389.4	386.3	384.1	386.2	392.6	399.5	405.6	411.3	416.2	419.5	419.5
15°	402.3	400.1	397.5	402.3	411.0	417.1	419.7	422.5	425.2	427.6	427.1
17.5°	414.7	412.6	411.3	416.9	426.0	428.8	427.1	425.1	425.1	426.4	426.7
20°	425.4	423.6	424.5	429.9	434.7	431.8	425.4	418.9	416.2	416.9	417.6
22.5°	434.8	434.0	436.5	439.1	435.7	425.4	413.7	404.8	401.5	401.3	401.5
25°	445.8	445.7	448.8	444.2	429.1	410.2	394.5	385.8	384.0	385.4	387.9
27.5°	459.4	460.8	462.4	445.4	415.7	387.2	371.2	365.2	367.0	370.6	372.9
30°	476.9	480.5	477.1	442.4	396.4	360.8	345.6	343.9	348.9	353.9	356.3
32.5°	493.8	499.5	491.3	434.5	371.6	332.9	321.1	320.6	326.7	331.6	335.0
35°	507.5	518.8	501.9	418.7	342.8	307.2	298.5	295.2	297.4	303.2	307.1
37.5°	525.3	544.2	509.2	394.7	311.6	286.0	275.9	268.3	266.4	268.7	270.6
40°	557.8	582.8	512.6	361.2	281.1	264.8	254.5	243.4	235.8	230.1	230.3
42.5°	611.0	633.2	510.4	320.5	252.9	244.0	232.5	219.7	207.2	194.6	193.6
45°	697.3	708.0	503.8	277.3	228.2	222.3	211.5	198.7	182.1	167.7	166.4
47.5°	835.4	811.6	493.6	239.7	206.4	203.9	193.9	179.2	161.6	150.1	149.1
50°	1023.7	961.2	488.6	209.7	187.1	187.8	179.7	164.1	147.5	139.0	138.0
52.5°	1249.0	1135.4	498.2	186.5	171.6	174.2	168.1	153.5	139.6	132.9	131.9
55°	1482.7	1315.8	508.6	169.7	157.0	162.0	159.9	147.9	135.3	129.1	128.2
57.5°	1682.7	1450.5	487.8	156.0	144.0	151.8	153.6	144.3	133.1	127.5	126.5
60°	1808.6	1504.7	433.5	143.2	133.6	143.6	149.9	143.4	134.0	133.5	132.7
62.5°	1868.4	1500.0	351.9	133.1	127.1	140.1	152.6	148.8	143.7	148.1	148.5
65°	1841.6	1428.3	262.1	126.4	122.5	141.4	160.7	159.2	146.5	150.9	151.5
67.5°	1665.0	1257.3	194.1	120.6	117.4	145.2	175.3	162.6	141.0	144.2	142.3
70°	1345.8	996.8	149.7	114.0	112.1	144.7	181.9	160.5	135.1	135.8	130.6
72.5°	928.0	679.7	121.8	107.9	104.6	131.9	177.2	155.4	130.1	124.5	117.5
75°	504.7	364.8	103.5	101.5	91.3	115.8	168.7	151.8	125.6	118.1	114.2
77.5°	198.6	151.4	89.8	92.9	79.8	102.3	159.2	144.8	119.3	109.6	107.6
80°	81.1	77.3	74.5	80.3	68.6	89.5	147.7	136.7	111.9	101.7	97.8
82.5°	46.0	48.0	57.9	63.4	55.7	82.4	142.3	130.1	103.0	91.1	86.4
85°	23.5	28.2	40.3	45.5	41.0	70.1	131.0	113.9	82.6	69.7	70.1
87.5°	11.3	15.7	25.5	28.5	26.6	50.7	97.9	82.5	64.4	51.0	49.4
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)