

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: P318305

Luminaire Tested: **GAN-SA1A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318305
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-SA1A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

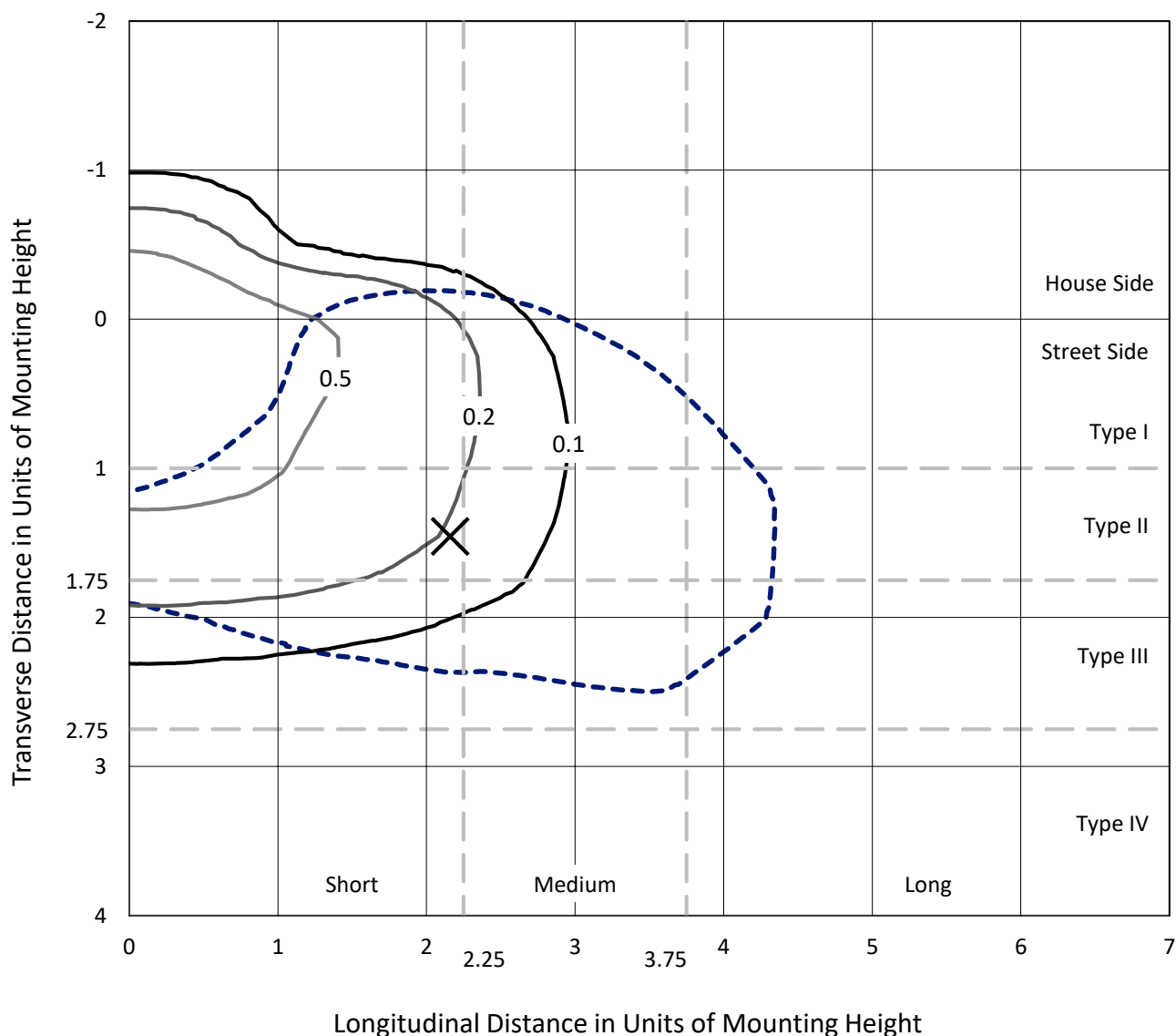
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

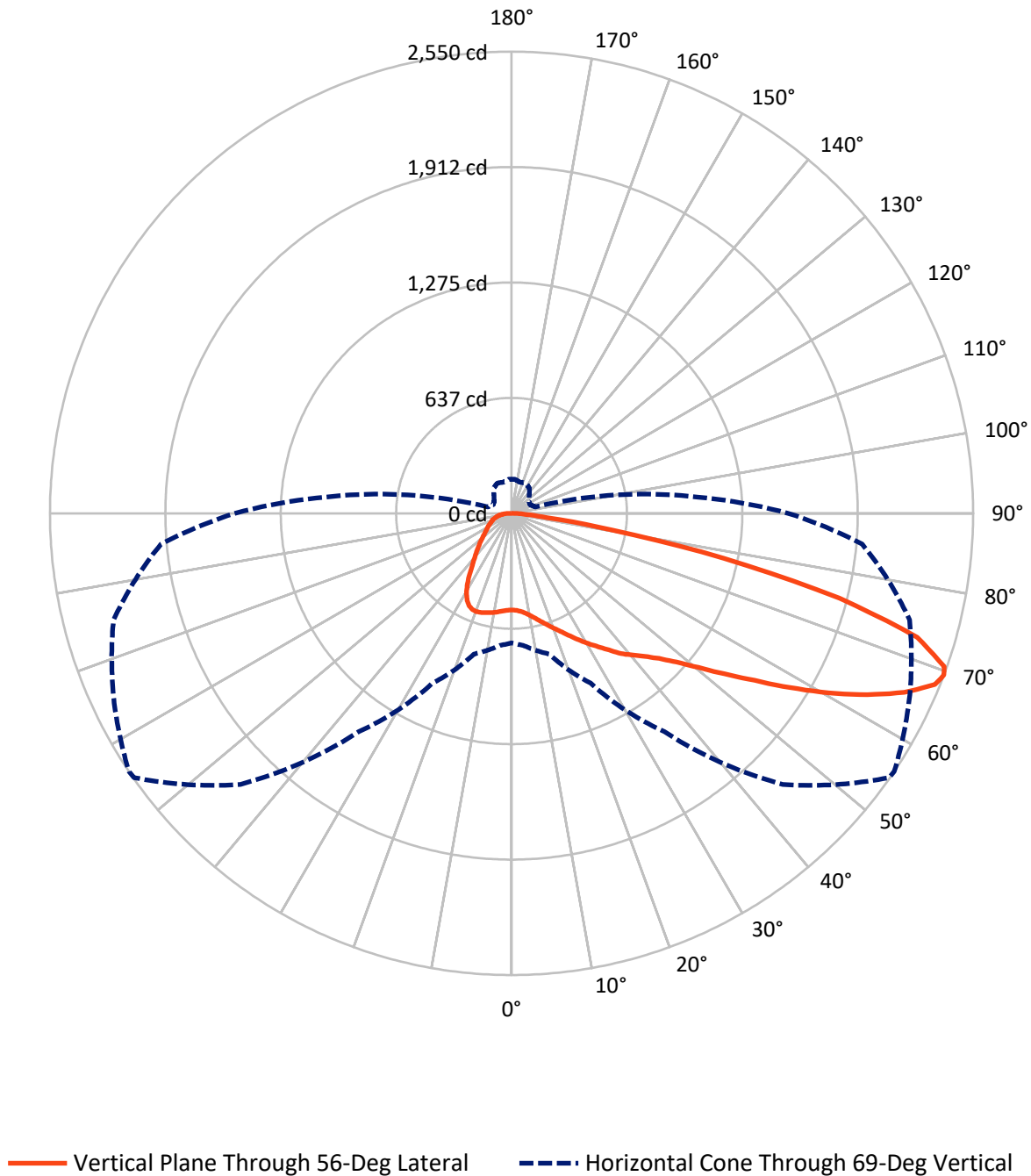
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.1	0.0	909.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3172.9	0.0	3172.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	4082.0	0.0	4082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.3
10°-20°	168.5	4.1
20°-30°	294.2	7.2
30°-40°	422.6	10.4
40°-50°	584.9	14.3
50°-60°	856.9	21.0
60°-70°	1044.8	25.6
70°-80°	577.6	14.2
80°-90°	80.0	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°	4082.0	100.0
0°-180°	4082.0	100.0

Coefficient of Utilization



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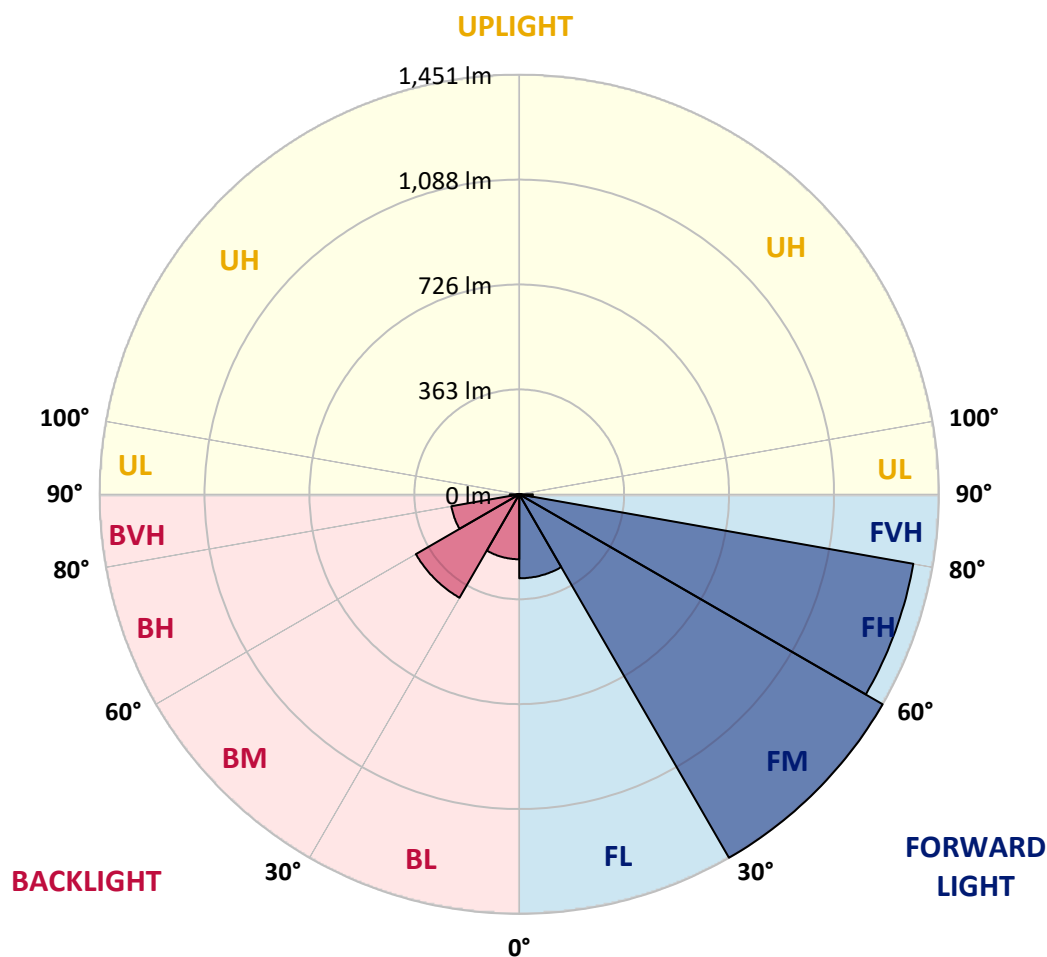
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.5	7.1			
FM	(30°-60°)	1451.3	35.6			
FH	(60°-80°)	1384.0	33.9			G1/1800
FVH	(80°-90°)	47.1	1.2			G1/100
BL	(0°-30°)	224.6	5.5	B1/500		
BM	(30°-60°)	413.1	10.1	B1/1000		
BH	(60°-80°)	238.4	5.8	B1/500		G1/500
BVH	(80°-90°)	32.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7
2.5°	537.0	537.6	537.2	538.3	537.0	537.9	537.2	537.2	536.8	535.5	534.1
5°	545.5	546.6	545.9	547.0	545.5	545.8	544.5	544.5	543.2	540.6	537.7
7.5°	558.7	560.0	559.4	560.5	558.4	558.4	556.7	556.6	554.1	549.7	546.5
10°	574.4	576.1	575.6	577.3	575.6	576.1	574.4	574.4	571.1	564.9	560.8
12.5°	597.4	599.5	597.9	597.8	597.1	598.2	596.8	596.5	593.4	585.0	579.4
15°	628.0	630.3	627.0	626.8	622.8	622.4	622.4	622.0	620.0	609.9	600.6
17.5°	663.3	664.0	661.2	656.7	651.6	648.4	648.0	649.1	649.1	637.3	622.5
20°	697.9	699.2	696.9	691.9	685.4	680.6	677.2	679.5	679.3	665.3	644.3
22.5°	735.6	738.5	735.2	728.7	721.1	715.8	709.9	711.8	712.0	694.7	665.7
25°	784.4	781.7	779.6	770.5	759.6	754.2	748.7	750.6	750.1	726.3	687.8
27.5°	827.6	828.1	825.3	815.6	803.1	791.0	790.7	792.0	789.9	759.2	708.6
30°	877.8	878.0	874.1	865.4	851.7	836.1	832.5	834.6	830.1	790.4	730.5
32.5°	927.7	929.1	924.7	914.2	903.2	884.2	876.9	878.3	867.1	822.4	753.2
35°	971.4	973.4	972.0	964.9	953.0	936.7	928.0	927.1	913.2	861.4	783.1
37.5°	1016.0	1017.8	1016.3	1010.4	1005.6	988.3	983.7	983.7	959.5	901.4	821.2
40°	1061.8	1064.6	1062.8	1054.7	1050.6	1042.7	1031.6	1028.9	1002.8	949.3	883.4
42.5°	1104.4	1108.1	1115.4	1110.6	1102.3	1103.5	1081.1	1079.7	1060.6	1020.2	961.4
45°	1164.9	1170.3	1182.6	1179.0	1177.3	1171.1	1144.5	1143.3	1135.9	1115.6	1058.3
47.5°	1230.9	1238.2	1260.5	1261.2	1279.4	1267.7	1231.6	1227.2	1228.9	1229.7	1176.6
50°	1291.6	1299.6	1336.3	1353.6	1396.4	1398.9	1341.1	1337.2	1343.8	1363.2	1314.4
52.5°	1340.1	1350.3	1396.1	1449.5	1522.8	1543.6	1476.0	1473.0	1477.9	1511.4	1470.2
55°	1375.7	1386.7	1436.6	1533.9	1650.9	1687.6	1631.2	1628.4	1631.5	1674.1	1639.7
57.5°	1384.0	1386.7	1459.1	1590.7	1759.0	1847.2	1821.2	1815.6	1800.4	1837.5	1826.7
60°	1345.0	1355.7	1440.5	1610.7	1842.7	2004.6	2019.8	2012.7	1970.1	2000.5	1991.8
62.5°	1266.0	1285.1	1371.2	1580.3	1875.5	2133.1	2214.5	2206.1	2132.7	2152.4	2110.5
65°	1136.9	1145.1	1235.5	1475.5	1833.9	2215.4	2388.2	2384.0	2291.6	2260.8	2132.4
67.5°	906.0	921.4	998.1	1256.6	1663.6	2205.7	2522.5	2522.1	2395.4	2301.0	2054.6
69°	715.8	731.7	804.8	1035.1	1472.0	2116.9	2545.0	2549.9	2424.6	2276.5	1943.5
70°	570.6	589.1	639.3	871.9	1302.0	1999.9	2526.3	2535.1	2419.0	2236.2	1841.0
72.5°	242.9	257.8	293.5	449.4	793.5	1493.4	2309.9	2343.3	2288.6	2046.6	1521.5
75°	106.0	110.7	126.8	183.2	352.3	812.8	1809.5	1871.4	1956.9	1729.9	1133.4
77.5°	77.6	79.6	88.5	107.6	158.1	307.0	1163.6	1199.6	1411.3	1258.8	695.2
80°	60.0	61.5	68.3	79.0	103.2	124.2	530.7	561.6	793.5	646.6	289.5
82.5°	47.8	48.8	53.6	58.2	71.3	75.2	176.2	195.5	292.9	178.6	76.6
85°	44.4	45.6	47.2	42.5	45.7	44.2	76.2	79.7	88.5	70.2	32.1
87.5°	20.1	23.8	46.8	33.0	24.3	19.4	31.2	32.6	36.7	36.8	14.2
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°	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7	533.7
2.5°	534.9	534.5	535.2	533.5	535.6	535.5	534.8	535.1	536.5	536.3	536.5
5°	538.2	537.9	538.7	537.5	540.0	540.8	541.0	542.2	543.8	544.2	544.2
7.5°	546.3	546.3	546.7	545.1	546.7	546.6	545.9	547.2	548.7	548.8	548.7
10°	560.4	560.5	559.8	555.5	554.1	550.3	546.7	546.9	548.8	550.4	550.8
12.5°	578.1	577.5	574.4	566.4	560.5	552.8	549.1	549.0	551.0	552.2	552.6
15°	598.3	596.8	588.8	575.7	565.3	557.7	551.8	550.4	549.3	547.9	548.0
17.5°	617.5	614.0	600.6	582.5	571.5	561.4	550.0	540.8	534.5	530.8	529.7
20°	636.9	630.0	610.7	588.8	574.9	556.4	534.5	515.9	504.4	499.1	498.1
22.5°	654.6	643.5	620.1	595.4	572.2	539.8	505.4	478.4	462.4	455.2	455.8
25°	671.9	656.4	630.0	600.0	558.7	510.6	464.9	431.7	413.1	405.1	404.9
27.5°	687.1	669.5	640.7	596.2	533.5	469.0	416.9	384.6	369.1	362.2	361.1
30°	704.5	686.0	654.9	581.8	496.7	420.9	370.1	347.3	336.4	329.5	328.2
32.5°	725.7	708.3	666.5	555.5	449.6	370.7	333.6	317.7	307.7	299.9	298.5
35°	756.7	737.8	669.5	517.8	397.8	331.0	306.7	290.4	276.9	266.9	265.9
37.5°	795.5	774.8	662.8	469.0	347.6	305.3	284.3	264.2	246.7	232.6	230.3
40°	851.5	820.2	644.0	412.7	310.6	285.5	262.5	239.6	217.8	201.4	198.1
42.5°	918.7	873.5	615.4	356.8	283.5	265.4	240.9	212.5	191.7	180.0	178.3
45°	1004.2	928.9	575.6	307.8	256.8	245.2	217.5	191.4	178.4	169.9	168.5
47.5°	1101.8	991.1	533.8	268.0	234.1	226.4	198.8	182.0	171.7	164.9	163.7
50°	1221.7	1061.3	489.5	235.4	211.4	203.8	190.0	176.8	168.6	163.4	162.1
52.5°	1357.0	1140.4	457.6	209.7	192.5	187.0	185.3	173.9	167.3	163.4	162.1
55°	1502.7	1221.0	423.1	188.0	176.2	177.7	182.2	174.2	169.7	164.9	163.1
57.5°	1648.5	1304.3	384.7	169.7	163.3	170.9	180.1	174.8	171.0	166.4	164.7
60°	1763.8	1357.0	325.3	154.4	153.0	163.3	175.1	170.6	165.7	165.8	165.5
62.5°	1817.7	1354.2	259.6	140.8	142.7	153.0	166.9	164.0	159.9	165.4	165.8
65°	1787.4	1286.7	202.1	128.4	131.8	142.3	158.5	160.7	162.1	172.7	174.1
67.5°	1660.6	1155.3	156.5	117.6	121.8	135.0	159.3	175.1	176.9	188.0	187.9
69°	1529.4	1032.2	136.0	111.9	116.9	136.8	170.3	184.2	177.3	189.1	187.4
70°	1419.4	934.7	125.0	108.1	114.6	140.1	177.6	184.1	175.2	185.3	182.5
72.5°	1093.2	672.5	106.0	101.1	107.0	134.0	179.7	180.0	170.3	172.3	167.5
75°	749.8	425.0	92.5	91.5	95.5	120.8	173.0	172.0	157.5	154.7	150.7
77.5°	413.4	215.9	78.6	82.4	85.1	107.0	157.2	155.8	143.9	138.0	136.5
80°	159.5	94.5	66.4	73.3	75.0	92.7	137.8	136.5	126.6	119.0	116.9
82.5°	60.2	49.5	54.8	63.4	62.9	76.5	116.7	116.0	106.3	95.2	91.8
85°	27.8	29.7	43.5	52.3	48.2	56.7	93.4	94.6	82.8	69.6	69.6
87.5°	11.8	16.6	30.8	39.5	32.5	38.2	68.5	65.4	60.0	41.6	39.1
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)