

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: P319115

Luminaire Tested: **GAN-SA1B-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319115
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-SA1B-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5941 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

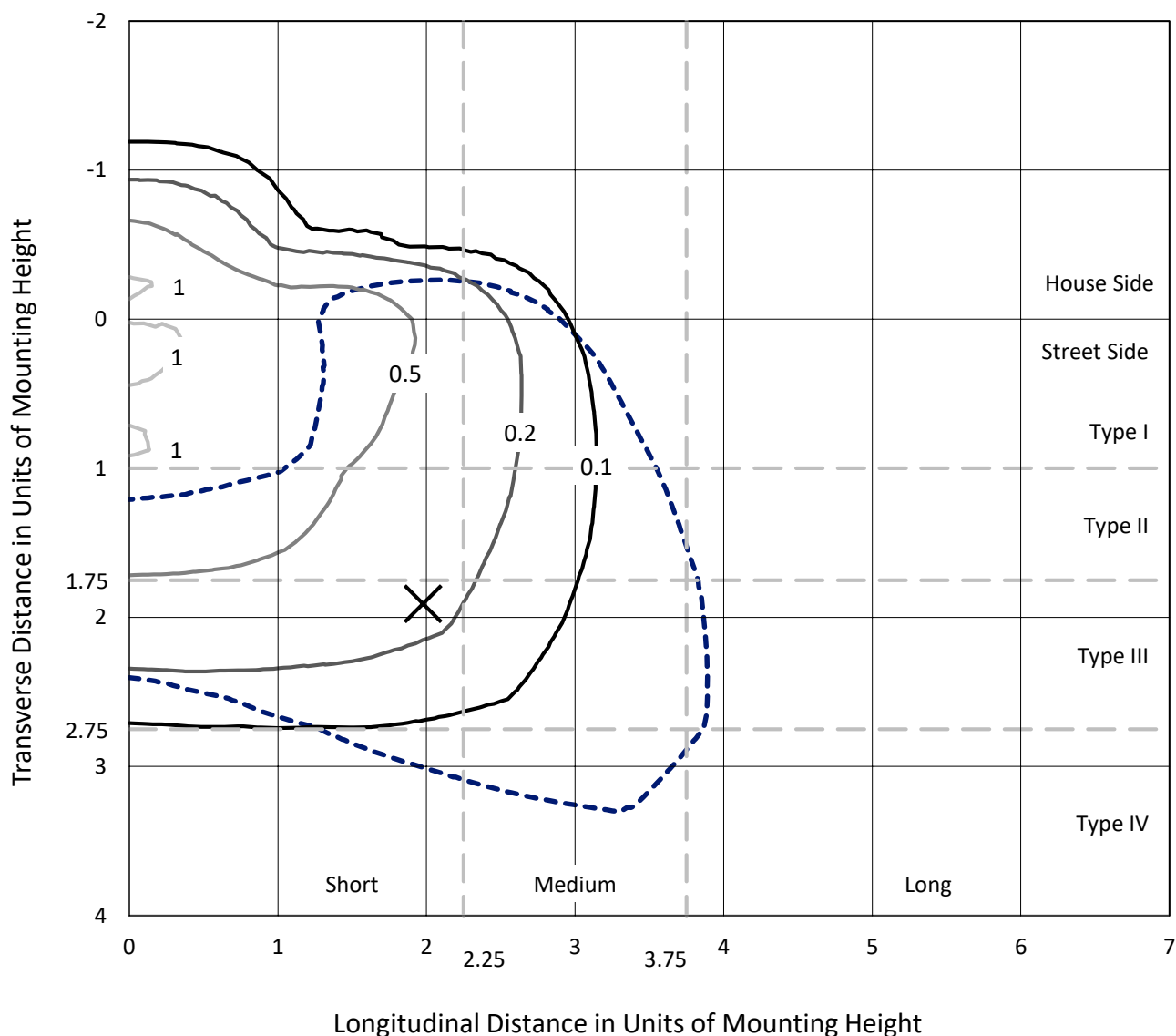
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

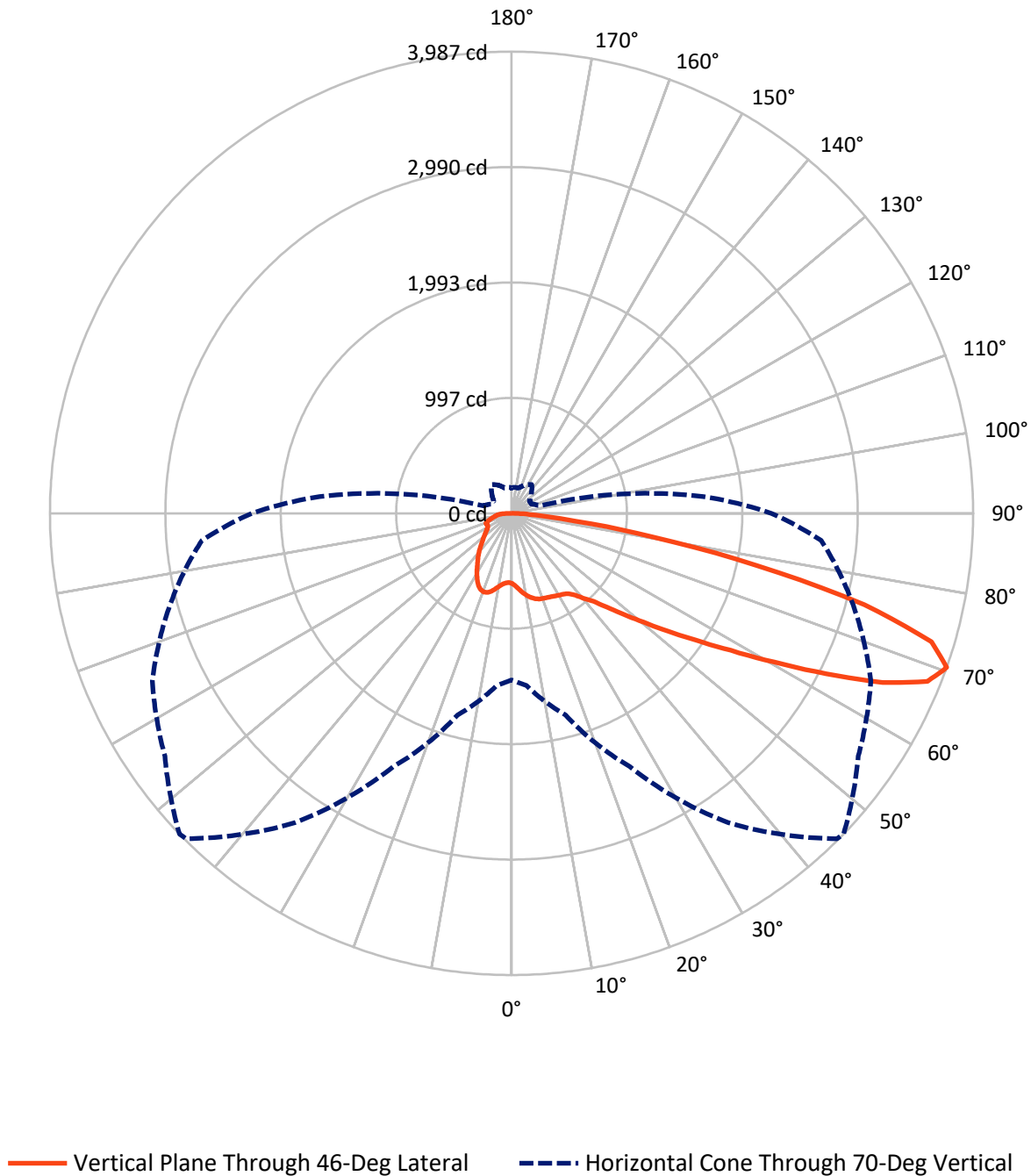
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	1361.7	0.0	1361.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4579.3	0.0	4579.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	5941.0	0.0	5941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.0
10°-20°	205.6	3.5
20°-30°	342.8	5.8
30°-40°	486.4	8.2
40°-50°	715.5	12.0
50°-60°	1211.7	20.4
60°-70°	1720.0	29.0
70°-80°	1044.9	17.6
80°-90°	152.5	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°	5941.0	100.0
0°-180°	5941.0	100.0

Coefficient of Utilization



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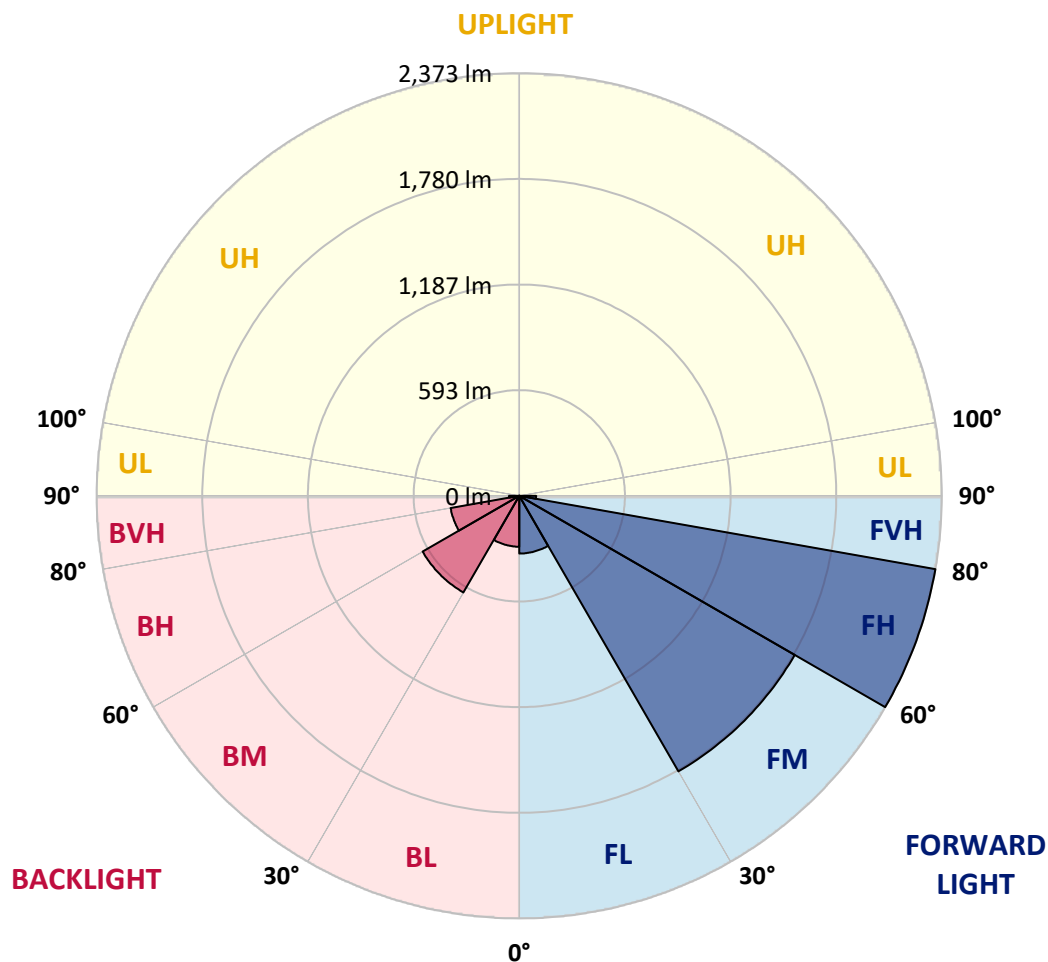
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.2	5.5			
FM	(30°-60°)	1786.8	30.1			
FH	(60°-80°)	2373.4	39.9			G2/5000
FVH	(80°-90°)	95.0	1.6			G1/100
BL	(0°-30°)	285.9	4.8	B1/500		
BM	(30°-60°)	626.8	10.6	B1/1000		
BH	(60°-80°)	391.5	6.6	B1/500		G1/500
BVH	(80°-90°)	57.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3
2.5°	635.6	636.0	636.8	634.8	629.1	627.4	626.8	620.9	617.1	611.4	606.5
5°	686.4	686.8	685.6	679.9	667.3	657.9	657.1	643.7	631.5	618.5	608.7
7.5°	739.5	740.1	736.2	725.4	707.7	691.5	690.5	672.2	653.7	633.9	619.3
10°	786.4	784.0	777.7	762.6	741.7	721.8	721.0	701.8	680.5	656.7	637.2
12.5°	817.7	815.7	807.6	789.3	766.3	748.0	746.4	728.7	707.9	681.9	658.5
15°	835.0	836.4	825.5	804.7	782.4	766.9	765.5	752.9	734.4	708.1	681.3
17.5°	837.3	838.5	827.9	807.4	789.1	778.5	777.9	769.6	756.1	730.9	702.9
20°	824.2	825.1	816.3	799.4	787.4	784.2	784.0	780.3	770.4	748.0	720.8
22.5°	805.3	805.9	799.6	787.4	783.4	788.5	789.9	788.5	781.3	760.4	734.8
25°	800.7	800.3	793.7	781.3	784.8	795.6	797.4	798.0	793.1	774.8	752.7
27.5°	823.2	821.8	809.4	789.5	791.7	804.7	807.2	813.1	810.0	793.9	773.0
30°	888.5	886.1	860.6	820.4	809.4	816.1	819.2	828.5	829.1	815.7	800.0
32.5°	998.7	995.6	950.1	878.1	839.3	827.7	830.5	844.6	852.1	841.7	824.9
35°	1138.0	1134.5	1074.7	976.3	889.3	849.9	851.9	863.1	878.1	863.5	841.1
37.5°	1283.1	1274.8	1217.3	1091.8	968.8	897.2	897.2	898.7	905.8	875.3	860.2
40°	1427.5	1419.1	1367.1	1227.6	1071.7	971.9	967.2	935.7	930.0	903.7	898.7
42.5°	1561.7	1559.2	1528.5	1381.1	1192.4	1045.2	1038.7	985.3	986.5	970.2	970.4
45°	1704.4	1704.4	1679.4	1536.1	1333.1	1163.2	1156.7	1078.0	1090.2	1082.7	1100.8
47.5°	1820.9	1824.6	1821.1	1697.5	1496.8	1313.0	1301.2	1206.5	1240.6	1266.5	1319.1
50°	1939.8	1945.5	1946.1	1874.6	1694.6	1491.1	1477.7	1377.1	1453.3	1527.3	1630.8
52.5°	2112.5	2125.3	2074.2	2051.3	1937.0	1702.6	1689.4	1596.4	1723.7	1827.6	2005.9
55°	2272.5	2261.3	2224.9	2239.1	2196.4	1943.3	1933.3	1851.8	2025.0	2160.0	2391.6
57.5°	2359.1	2358.3	2394.9	2455.9	2476.2	2240.1	2231.8	2152.5	2364.8	2466.2	2753.7
60°	2460.7	2462.2	2552.8	2691.3	2775.1	2609.8	2606.1	2545.9	2694.7	2752.1	3037.7
62.5°	2475.0	2500.6	2656.7	2895.0	3054.8	3041.6	3049.7	2900.3	2990.0	2980.2	3249.8
65°	2311.3	2345.0	2627.7	2956.6	3333.0	3513.9	3521.4	3256.7	3222.8	3175.2	3325.6
67.5°	1975.8	2025.8	2332.8	2822.6	3424.7	3863.0	3873.6	3533.0	3415.9	3241.3	3143.1
70°	1437.9	1493.4	1802.4	2410.7	3261.2	3974.6	3986.6	3655.2	3423.2	3053.2	2683.2
72.5°	868.6	912.1	1166.8	1774.7	2752.5	3771.3	3792.7	3500.3	3125.4	2586.2	1981.3
75°	381.4	409.9	564.2	1022.7	1970.5	3120.3	3146.9	2996.1	2539.4	1879.5	1171.1
77.5°	162.4	170.6	231.4	444.2	1114.0	2132.2	2168.8	2189.1	1722.9	1022.7	494.9
80°	101.3	104.5	130.9	201.1	521.3	1197.5	1237.0	1288.0	855.6	375.9	172.8
82.5°	61.6	65.3	87.0	121.6	271.4	542.9	561.8	597.7	332.0	162.4	89.5
85°	37.0	39.6	53.3	76.9	154.5	213.5	213.3	235.8	156.3	104.5	47.2
87.5°	17.7	19.7	28.5	39.8	77.9	80.1	75.0	85.0	94.9	68.5	23.8
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°	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3	605.3
2.5°	604.9	604.1	601.4	599.4	599.0	597.7	596.7	597.3	598.2	598.4	598.4
5°	604.7	602.4	599.0	597.5	599.4	601.8	604.9	608.9	611.4	613.2	614.4
7.5°	614.4	610.2	606.3	605.5	609.1	615.6	622.6	631.1	637.0	641.1	641.9
10°	630.7	625.4	621.5	622.4	628.9	638.2	648.0	658.9	667.9	673.4	673.8
12.5°	649.4	644.3	640.6	644.1	654.9	666.3	676.4	686.0	694.1	699.6	699.6
15°	670.9	667.3	663.0	670.9	685.6	695.7	700.0	704.7	709.2	713.2	712.4
17.5°	691.7	688.2	686.0	695.3	710.6	715.3	712.4	709.0	709.0	711.2	711.6
20°	709.6	706.5	707.9	717.1	725.0	720.1	709.6	698.6	694.1	695.3	696.6
22.5°	725.2	723.8	728.1	732.3	726.7	709.6	690.1	675.2	669.7	669.3	669.7
25°	743.5	743.3	748.6	740.9	715.7	684.2	657.9	643.5	640.4	642.9	647.0
27.5°	766.3	768.5	771.2	742.9	693.3	645.7	619.1	609.1	612.2	618.1	621.9
30°	795.4	801.5	795.8	737.8	661.2	601.8	576.4	573.6	581.9	590.2	594.3
32.5°	823.6	833.2	819.4	724.6	619.7	555.3	535.5	534.7	544.9	553.0	558.7
35°	846.4	865.3	837.1	698.4	571.7	512.4	497.9	492.4	496.1	505.6	512.2
37.5°	876.1	907.6	849.3	658.3	519.7	477.0	460.1	447.5	444.2	448.1	451.4
40°	930.4	972.1	854.9	602.4	468.8	441.6	424.5	406.0	393.2	383.9	384.1
42.5°	1019.0	1056.0	851.3	534.5	421.9	407.0	387.7	366.4	345.6	324.5	322.9
45°	1163.0	1180.9	840.3	462.5	380.6	370.8	352.8	331.4	303.8	279.8	277.5
47.5°	1393.3	1353.7	823.2	399.7	344.2	340.1	323.5	298.9	269.6	250.3	248.7
50°	1707.4	1603.1	814.9	349.7	312.1	313.3	299.7	273.7	246.0	231.8	230.2
52.5°	2083.2	1893.7	831.0	311.1	286.3	290.5	280.4	256.0	232.8	221.6	220.0
55°	2472.9	2194.6	848.2	283.0	261.9	270.2	266.8	246.6	225.7	215.3	213.9
57.5°	2806.6	2419.3	813.7	260.2	240.1	253.1	256.2	240.7	222.0	212.7	211.0
60°	3016.6	2509.7	723.0	238.9	222.8	239.5	250.1	239.1	223.4	222.6	221.4
62.5°	3116.2	2501.8	587.0	222.0	212.1	233.6	254.6	248.2	239.7	247.0	247.6
65°	3071.5	2382.3	437.1	210.8	204.3	235.8	268.0	265.5	244.4	251.7	252.7
67.5°	2777.1	2097.0	323.7	201.1	195.8	242.1	292.4	271.2	235.2	240.5	237.3
70°	2244.6	1662.5	249.7	190.1	187.1	241.3	303.3	267.8	225.3	226.5	217.8
72.5°	1547.8	1133.7	203.1	179.9	174.4	220.0	295.6	259.2	216.9	207.6	196.0
75°	841.7	608.5	172.6	169.4	152.3	193.2	281.4	253.1	209.4	197.0	190.5
77.5°	331.2	252.5	149.8	154.9	133.2	170.6	265.5	241.5	199.0	182.8	179.5
80°	135.2	128.9	124.2	134.0	114.5	149.2	246.4	227.9	186.6	169.6	163.1
82.5°	76.7	80.1	96.6	105.7	92.9	137.4	237.3	216.9	171.8	151.9	144.2
85°	39.2	47.0	67.3	75.8	68.3	116.9	218.6	189.9	137.8	116.3	116.9
87.5°	18.9	26.2	42.5	47.6	44.3	84.6	163.3	137.6	107.4	85.0	82.3
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)