

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: P321885

Luminaire Tested: **GAN-SA1C-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4798 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

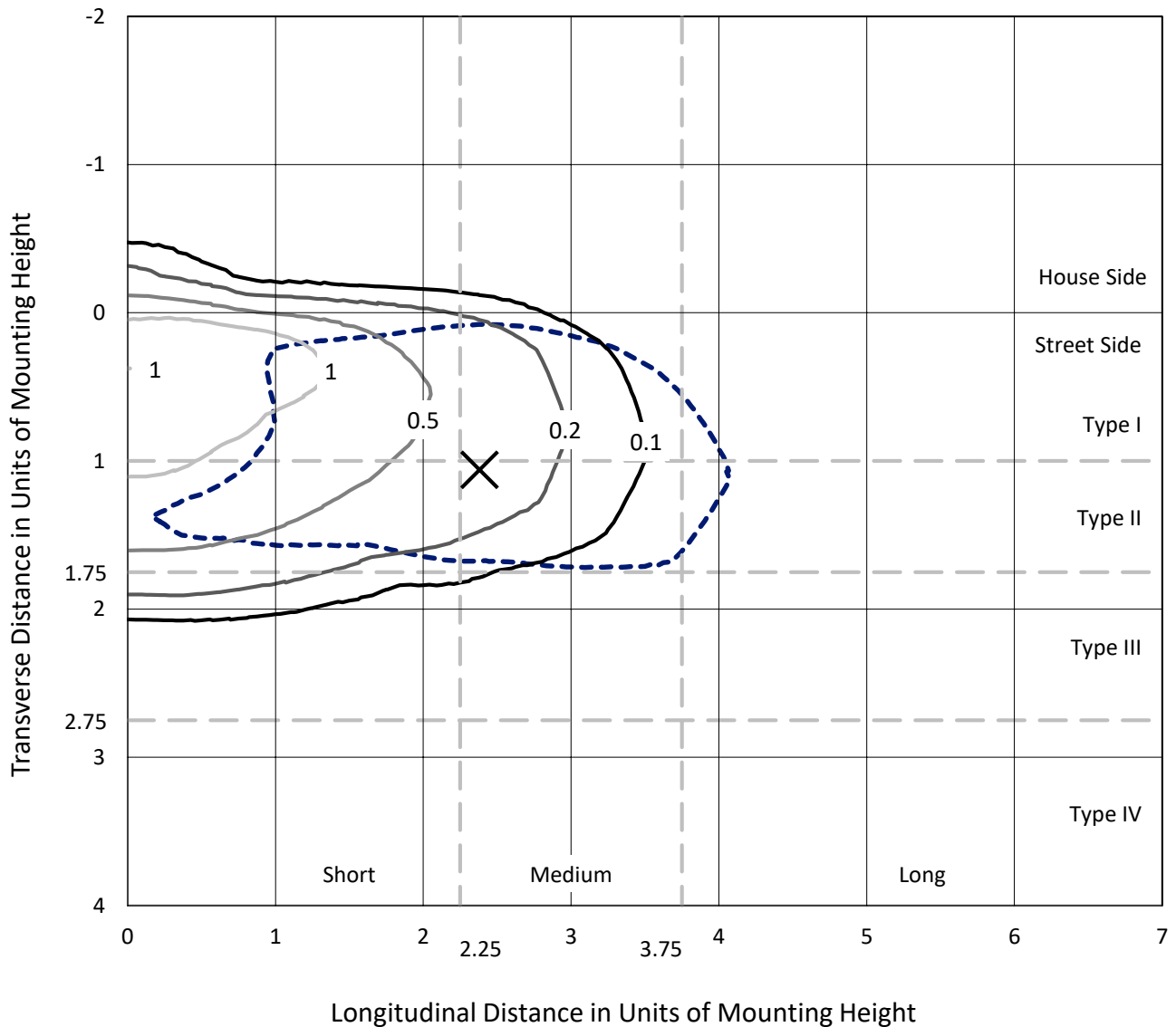
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

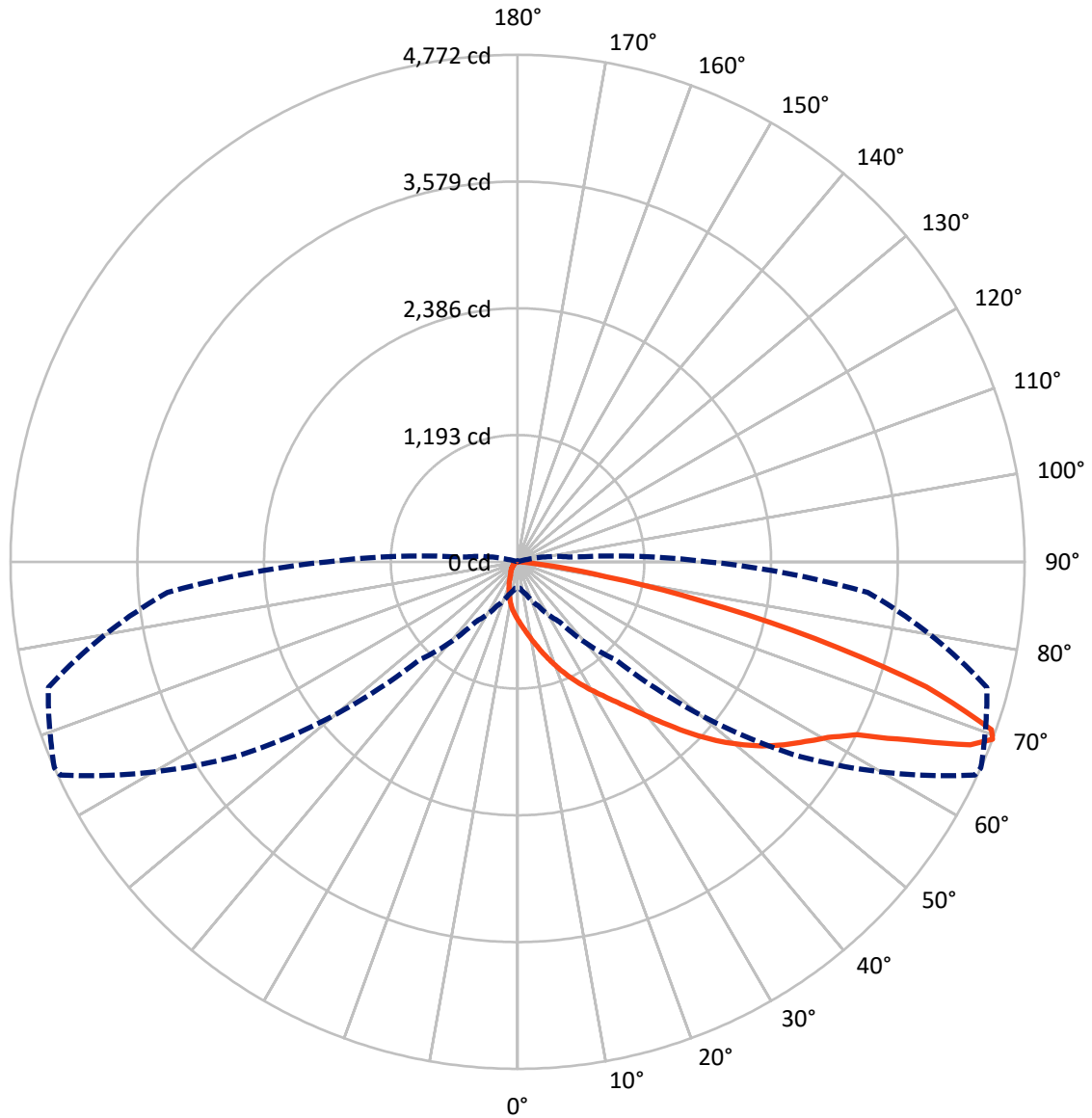
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	287.8	0.0	287.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4510.2	0.0	4510.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	4798.0	0.0	4798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.1
10°-20°	157.1	3.3
20°-30°	273.5	5.7
30°-40°	479.9	10.0
40°-50°	803.3	16.7
50°-60°	1180.8	24.6
60°-70°	1212.4	25.3
70°-80°	598.5	12.5
80°-90°	39.6	0.8
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°	4798.0	100.0
0°-180°	4798.0	100.0

Coefficient of Utilization

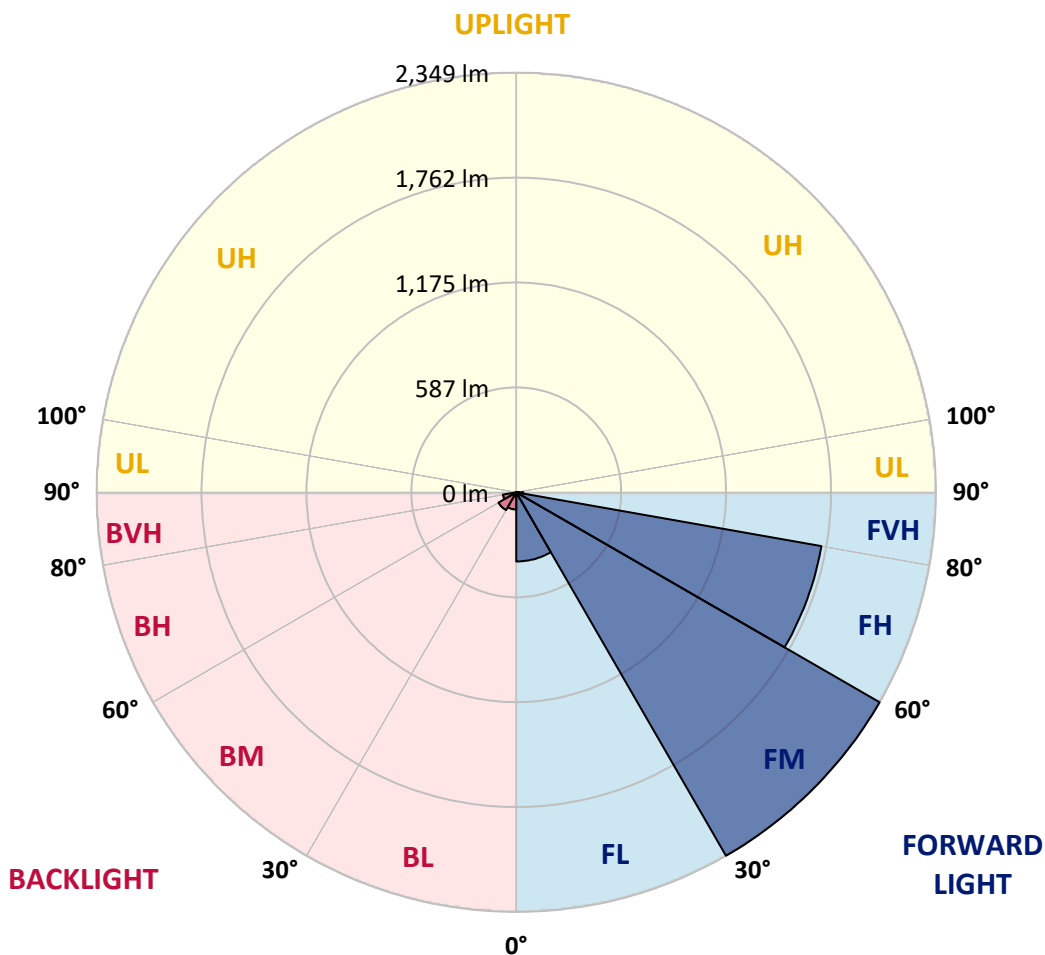


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.2	8.1			
FM (30°-60°)	2349.3	49.0			
FH (60°-80°)	1735.1	36.2			G1/1800
FVH (80°-90°)	38.6	0.8			G1/100
BL (0°-30°)	96.3	2.0	B0/110		
BM (30°-60°)	114.8	2.4	B0/220		
BH (60°-80°)	75.9	1.6	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	642.7	639.9	638.8	633.8	625.1	618.5	605.7	590.9	588.2	573.8	556.3
5°	726.1	723.8	722.2	715.1	706.2	689.6	666.4	638.8	633.5	606.2	571.1
7.5°	784.2	788.3	788.3	783.7	772.6	760.0	731.5	693.9	687.3	645.4	590.9
10°	818.1	823.1	827.0	830.9	829.3	824.3	797.4	755.0	747.0	691.4	613.9
12.5°	821.3	826.3	837.3	853.5	869.2	880.6	863.7	822.7	813.6	744.7	641.3
15°	803.5	808.8	825.7	857.1	895.2	928.4	933.9	897.7	888.3	808.3	675.5
17.5°	772.6	776.0	800.1	843.7	903.4	964.4	997.5	978.1	969.5	881.0	713.5
20°	749.5	752.0	773.2	820.0	898.3	987.0	1057.6	1063.6	1054.5	959.0	754.8
22.5°	789.0	793.5	794.2	816.3	884.7	998.2	1110.5	1147.7	1140.8	1041.7	795.3
25°	896.8	902.0	884.7	871.0	896.3	1003.2	1155.9	1233.8	1228.3	1130.8	836.1
27.5°	1039.2	1044.7	1022.3	981.5	957.1	1022.1	1196.2	1321.3	1321.1	1225.1	880.1
30°	1179.1	1184.6	1161.8	1121.0	1064.9	1075.6	1231.1	1412.9	1414.3	1322.5	926.8
32.5°	1325.9	1332.7	1309.2	1256.8	1198.3	1168.2	1280.1	1505.0	1512.7	1435.3	979.5
35°	1492.7	1493.6	1460.6	1405.6	1338.2	1291.9	1358.7	1608.2	1626.7	1575.0	1046.2
37.5°	1656.3	1662.9	1635.8	1549.2	1487.2	1434.8	1475.6	1737.2	1763.4	1745.6	1133.5
40°	1777.6	1791.5	1787.6	1694.1	1635.3	1598.0	1620.8	1890.6	1923.9	1944.4	1243.6
42.5°	1853.7	1864.2	1881.9	1825.6	1772.3	1778.5	1792.1	2069.3	2110.3	2170.9	1370.1
45°	1941.0	1946.0	1960.8	1935.9	1899.9	1961.9	1974.0	2270.5	2313.6	2414.5	1510.5
47.5°	2047.6	2059.5	2063.6	2040.8	2024.4	2124.2	2149.2	2453.5	2513.9	2675.4	1659.0
50°	2183.4	2186.6	2193.7	2178.9	2162.5	2263.6	2306.5	2645.6	2700.5	2937.3	1805.6
52.5°	2316.3	2327.7	2352.3	2343.0	2336.3	2382.4	2446.6	2818.8	2880.1	3155.6	1951.9
55°	2354.6	2364.4	2449.4	2507.5	2561.3	2528.7	2580.6	2974.0	3040.3	3350.7	2092.7
57.5°	2201.7	2221.5	2368.7	2520.0	2743.1	2756.1	2764.8	3133.3	3192.8	3500.2	2239.3
60°	1815.2	1819.0	2060.6	2320.2	2713.0	2954.6	3033.7	3304.4	3354.3	3639.4	2414.7
62.5°	1154.5	1193.9	1459.0	1825.4	2394.9	2925.9	3358.9	3563.3	3581.5	3806.5	2666.3
65°	549.9	575.4	766.4	1127.8	1734.7	2558.3	3583.4	4031.6	4039.8	4137.6	3002.5
67.5°	304.5	316.8	407.7	607.1	1014.1	1809.2	3492.7	4586.3	4594.1	4475.8	3297.4
69°	238.1	248.6	320.2	457.6	687.5	1300.3	3160.6	4748.8	4771.8	4572.6	3307.8
70°	202.1	212.4	275.7	386.5	552.9	1004.8	2813.3	4708.5	4732.8	4563.5	3229.7
72.5°	123.7	129.7	183.7	272.1	370.6	505.5	1734.9	3981.9	4023.2	4186.1	2775.7
75°	83.4	86.6	114.9	187.8	265.0	260.3	901.3	2806.7	2896.0	3256.3	2050.1
77.5°	59.7	62.7	77.0	121.5	185.7	171.8	408.2	1744.3	1763.4	1953.0	1118.0
80°	34.0	36.7	54.5	72.2	126.0	114.6	162.3	833.2	842.7	837.5	373.3
82.5°	17.8	20.1	29.9	47.6	80.9	75.0	67.5	278.9	280.3	233.1	81.8
85°	3.4	4.1	14.8	32.6	41.7	32.6	27.6	65.4	66.8	59.0	20.3
87.5°	0.0	0.2	5.9	7.3	8.2	8.4	8.9	12.8	13.7	18.5	5.5
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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	548.5	540.3	524.6	506.4	492.2	478.3	467.4	456.0	451.9	449.9	449.6
5°	554.0	536.7	503.4	469.2	441.2	414.8	395.8	377.8	369.4	365.5	363.9
7.5°	563.1	535.3	481.8	429.6	389.2	356.2	330.0	310.4	300.6	296.5	294.9
10°	573.8	533.5	456.5	387.6	336.1	302.0	276.0	256.6	245.9	241.3	239.1
12.5°	586.4	530.3	427.3	345.3	290.8	256.6	225.2	201.2	188.9	183.7	181.2
15°	601.9	527.1	396.8	305.4	250.9	209.2	174.8	158.6	156.1	155.2	155.4
17.5°	617.1	522.1	363.5	265.9	209.0	163.4	145.9	144.9	145.4	145.4	145.4
20°	630.8	510.7	327.3	232.2	169.1	137.9	134.2	132.6	131.5	130.6	129.4
22.5°	641.5	495.4	292.4	198.7	138.1	126.3	120.6	115.5	111.4	108.7	107.3
25°	648.8	475.2	260.5	166.6	124.2	114.9	104.6	96.2	89.8	85.9	84.3
27.5°	654.3	453.3	232.0	139.5	114.6	101.6	88.2	78.2	71.6	68.1	66.8
30°	658.2	428.4	206.9	122.6	103.9	87.7	73.4	63.6	58.8	57.0	56.1
32.5°	661.8	400.9	183.2	114.6	93.9	75.0	61.5	54.0	51.0	48.8	48.1
35°	670.9	375.3	160.7	106.2	83.6	64.0	52.9	47.4	44.4	43.1	42.6
37.5°	692.6	356.4	139.0	97.5	73.4	55.4	46.3	42.4	39.7	38.3	37.8
40°	727.4	346.9	120.8	88.2	63.4	48.8	41.9	38.3	35.3	33.3	32.8
42.5°	778.7	348.2	108.0	78.9	55.4	43.5	37.8	33.5	30.3	28.5	28.0
45°	840.9	358.2	99.1	69.7	48.8	39.4	33.3	28.7	25.8	24.2	23.7
47.5°	908.4	374.4	91.8	61.5	43.5	35.6	28.7	23.9	21.4	20.1	19.8
50°	979.5	390.2	84.3	53.6	39.0	31.7	24.2	19.8	17.8	16.6	16.2
52.5°	1051.5	408.4	77.5	46.3	35.1	27.1	20.1	16.2	14.6	13.7	13.2
55°	1129.0	422.1	70.9	40.6	31.2	23.0	16.6	13.4	12.1	10.9	10.7
57.5°	1220.1	443.2	64.0	35.1	26.7	19.1	13.7	10.7	9.6	8.4	8.2
60°	1343.2	468.1	56.7	31.0	21.9	15.7	11.2	8.7	7.3	6.4	6.2
62.5°	1505.5	495.7	47.6	27.1	17.8	12.8	8.9	6.8	5.2	4.1	4.1
65°	1711.2	540.6	39.0	22.8	14.6	10.5	6.8	5.0	3.0	1.8	1.8
67.5°	1831.3	548.3	31.4	18.7	11.9	8.9	5.7	3.4	0.9	0.2	0.0
69°	1792.8	503.4	26.7	16.0	10.3	8.4	5.2	2.5	0.5	0.0	0.0
70°	1720.4	460.3	23.5	14.1	9.3	8.0	5.0	1.8	0.5	0.0	0.0
72.5°	1421.6	327.7	17.8	10.5	6.8	7.1	4.6	1.1	0.5	0.0	0.0
75°	1035.5	199.2	12.8	7.3	4.3	5.2	3.2	0.5	0.2	0.0	0.0
77.5°	576.1	93.9	8.0	4.1	2.7	3.2	1.6	0.0	0.0	0.0	0.0
80°	187.1	25.5	3.6	2.3	1.6	1.8	0.7	0.0	0.0	0.0	0.0
82.5°	34.6	7.3	2.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.0	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)