

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: P321835

Luminaire Tested: **GAN-SA1B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321835
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-SA1B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3561 lumens
Efficiency: N/A
Efficacy: 80.9 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): 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



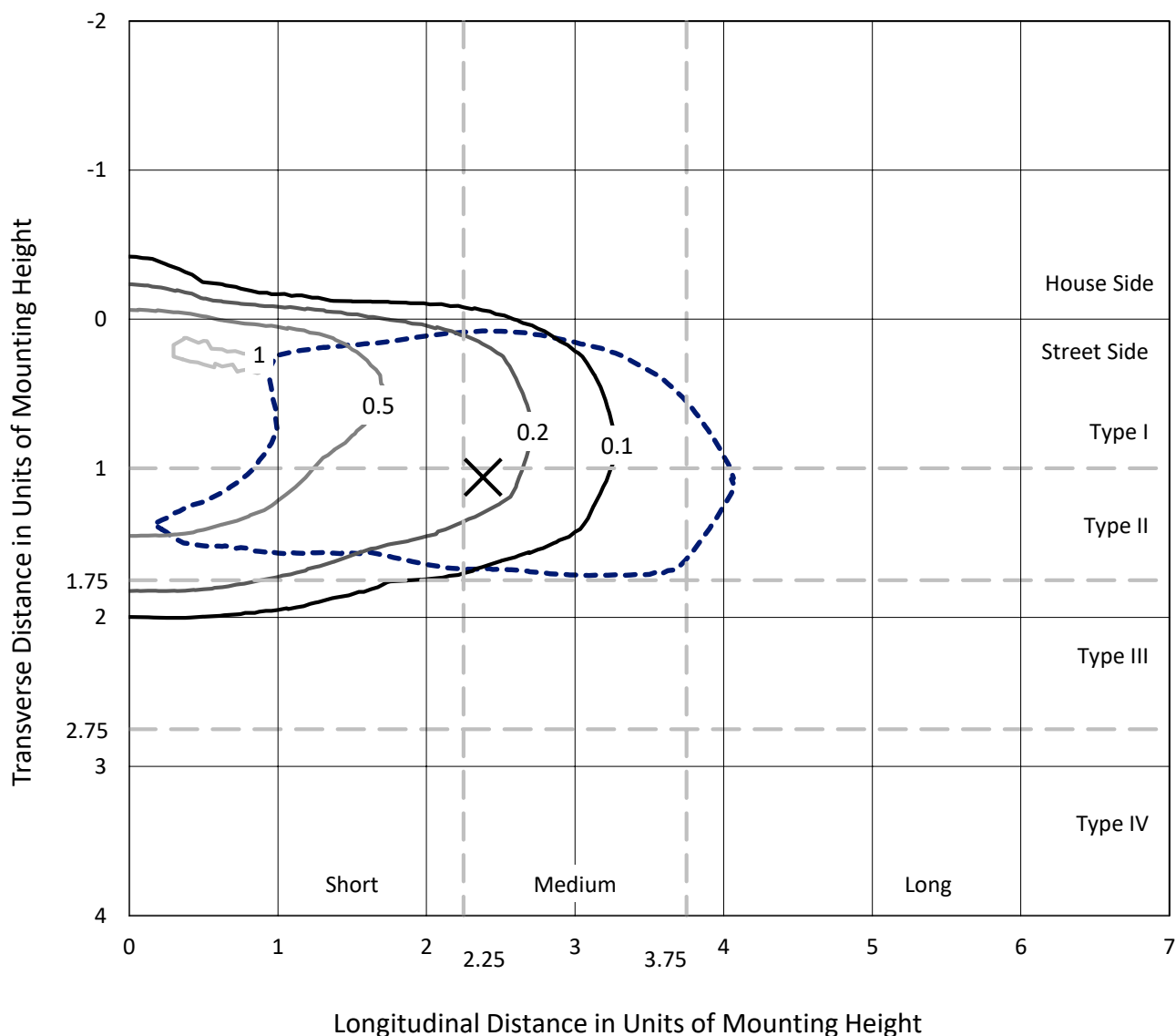
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

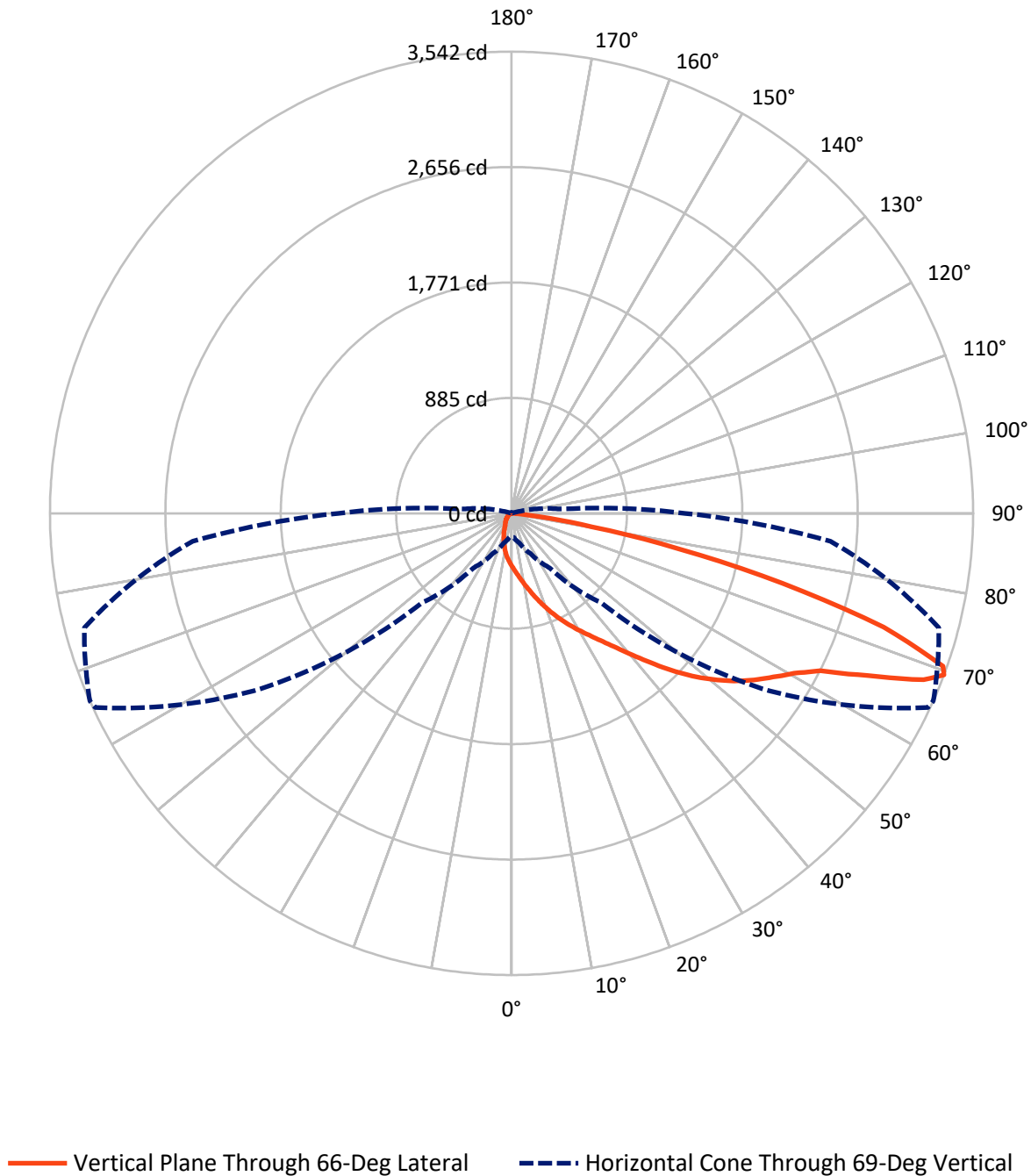
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.6	0.0	213.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3347.4	0.0	3347.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	3561.0	0.0	3561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	116.6	3.3
20°-30°	203.0	5.7
30°-40°	356.2	10.0
40°-50°	596.2	16.7
50°-60°	876.4	24.6
60°-70°	899.8	25.3
70°-80°	444.2	12.5
80°-90°	29.4	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°	3561.0	100.0
0°-180°	3561.0	100.0

Coefficient of Utilization



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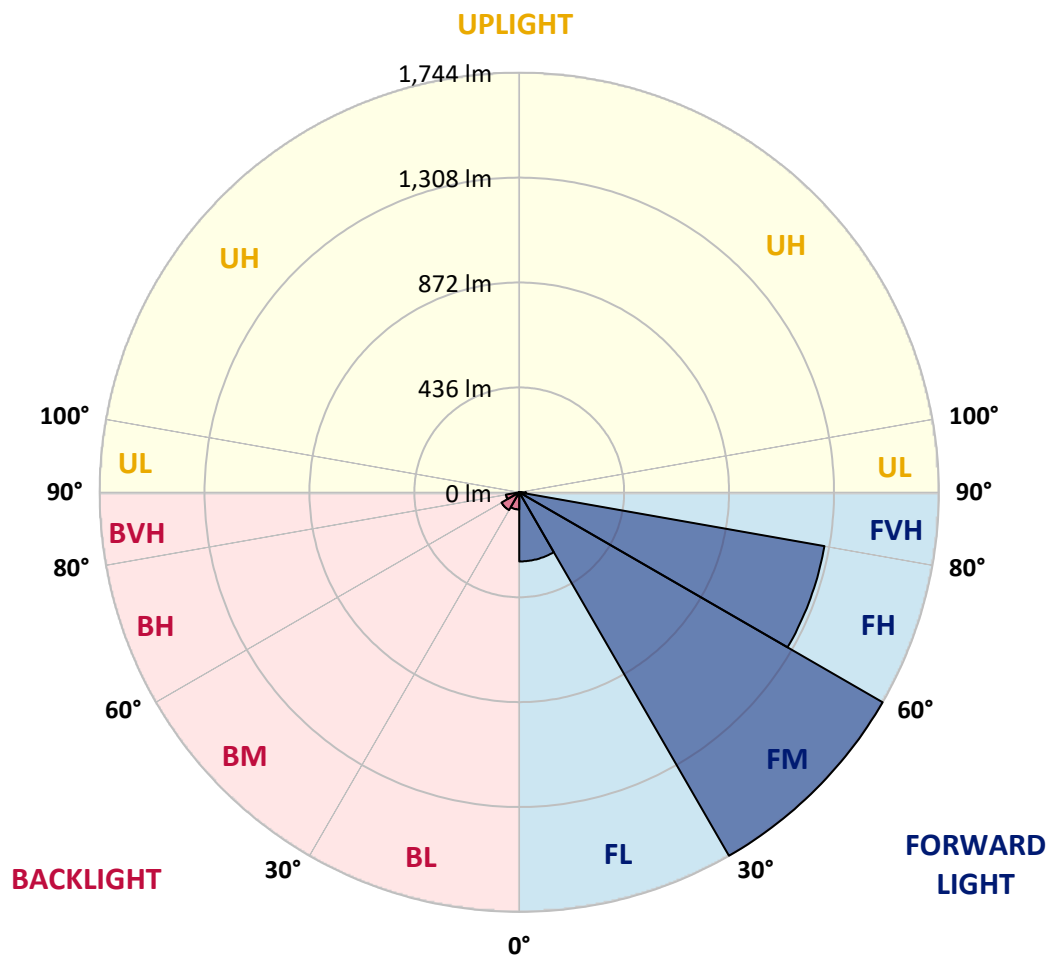
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.3	8.1			
FM	(30°-60°)	1743.6	49.0			
FH	(60°-80°)	1287.8	36.2			G1/1800
FVH	(80°-90°)	28.7	0.8			G1/100
BL	(0°-30°)	71.4	2.0	B0/110		
BM	(30°-60°)	85.2	2.4	B0/220		
BH	(60°-80°)	56.3	1.6	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	477.0	474.9	474.1	470.4	463.9	459.0	449.6	438.6	436.5	425.9	412.9
5°	538.9	537.2	536.0	530.8	524.2	511.8	494.6	474.1	470.2	449.9	423.9
7.5°	582.0	585.0	585.0	581.7	573.4	564.1	542.9	515.0	510.1	479.0	438.6
10°	607.2	610.9	613.8	616.7	615.5	611.8	591.8	560.4	554.4	513.2	455.7
12.5°	609.6	613.3	621.4	633.4	645.1	653.5	641.0	610.6	603.8	552.7	476.0
15°	596.4	600.3	612.8	636.1	664.4	689.1	693.1	666.2	659.3	599.9	501.3
17.5°	573.4	575.9	593.8	626.1	670.5	715.8	740.3	725.9	719.5	653.9	529.6
20°	556.3	558.2	573.9	608.6	666.7	732.5	785.0	789.4	782.6	711.7	560.2
22.5°	585.6	588.9	589.4	605.9	656.6	740.8	824.2	851.8	846.7	773.1	590.3
25°	665.6	669.4	656.6	646.4	665.2	744.5	857.9	915.7	911.7	839.3	620.6
27.5°	771.3	775.3	758.8	728.5	710.4	758.6	887.8	980.7	980.5	909.3	653.2
30°	875.1	879.2	862.3	832.0	790.4	798.3	913.7	1048.7	1049.7	981.5	687.9
32.5°	984.0	989.1	971.7	932.8	889.3	867.0	950.0	1117.0	1122.7	1065.2	727.0
35°	1107.9	1108.5	1084.0	1043.2	993.2	958.8	1008.4	1193.6	1207.3	1168.9	776.5
37.5°	1229.3	1234.2	1214.1	1149.8	1103.8	1064.9	1095.2	1289.3	1308.8	1295.6	841.3
40°	1319.3	1329.6	1326.7	1257.4	1213.7	1186.0	1202.9	1403.2	1427.9	1443.1	923.0
42.5°	1375.8	1383.5	1396.7	1355.0	1315.4	1319.9	1330.1	1535.8	1566.2	1611.2	1016.9
45°	1440.5	1444.3	1455.3	1436.8	1410.1	1456.1	1465.1	1685.1	1717.1	1792.0	1121.0
47.5°	1519.7	1528.5	1531.5	1514.6	1502.4	1576.5	1595.1	1820.9	1865.8	1985.7	1231.3
50°	1620.5	1622.9	1628.1	1617.1	1604.9	1680.0	1711.8	1963.5	2004.3	2180.0	1340.1
52.5°	1719.1	1727.6	1745.8	1738.9	1734.0	1768.2	1815.9	2092.1	2137.6	2342.0	1448.7
55°	1747.5	1754.8	1817.9	1861.0	1900.9	1876.7	1915.3	2207.2	2256.5	2486.8	1553.2
57.5°	1634.0	1648.8	1758.0	1870.3	2035.9	2045.5	2052.0	2325.5	2369.6	2597.8	1661.9
60°	1347.2	1350.1	1529.3	1722.0	2013.6	2192.9	2251.6	2452.5	2489.5	2701.1	1792.2
62.5°	856.9	886.1	1082.8	1354.8	1777.5	2171.6	2492.9	2644.6	2658.2	2825.1	1978.9
65°	408.1	427.1	568.8	837.1	1287.5	1898.7	2659.5	2992.2	2998.3	3070.9	2228.4
67.5°	226.0	235.1	302.6	450.6	752.7	1342.8	2592.2	3403.9	3409.6	3321.9	2447.2
69°	176.7	184.5	237.6	339.6	510.3	965.1	2345.8	3524.5	3541.6	3393.7	2455.0
70°	150.0	157.6	204.7	286.9	410.3	745.7	2088.0	3494.5	3512.6	3387.0	2397.0
72.5°	91.8	96.2	136.3	202.0	275.0	375.1	1287.6	2955.3	2986.0	3106.9	2060.1
75°	61.9	64.3	85.2	139.4	196.7	193.2	668.9	2083.1	2149.4	2416.8	1521.6
77.5°	44.3	46.5	57.2	90.2	137.8	127.5	302.9	1294.6	1308.8	1449.5	829.8
80°	25.2	27.2	40.4	53.6	93.5	85.1	120.4	618.4	625.5	621.6	277.0
82.5°	13.2	14.9	22.2	35.3	60.0	55.6	50.1	207.0	208.0	173.0	60.7
85°	2.5	3.0	11.0	24.2	31.0	24.2	20.5	48.5	49.6	43.8	15.1
87.5°	0.0	0.2	4.4	5.4	6.1	6.3	6.6	9.5	10.1	13.7	4.1
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°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	407.1	401.0	389.4	375.8	365.3	355.0	346.9	338.4	335.4	333.9	333.7
5°	411.2	398.3	373.6	348.3	327.5	307.8	293.8	280.4	274.2	271.3	270.1
7.5°	417.9	397.3	357.6	318.8	288.9	264.4	244.9	230.4	223.1	220.0	218.9
10°	425.9	396.0	338.8	287.7	249.5	224.1	204.8	190.4	182.5	179.1	177.4
12.5°	435.2	393.6	317.1	256.2	215.8	190.4	167.1	149.3	140.2	136.3	134.5
15°	446.7	391.2	294.5	226.6	186.2	155.3	129.7	117.7	115.9	115.2	115.4
17.5°	458.0	387.5	269.8	197.4	155.1	121.3	108.2	107.6	107.9	107.9	107.9
20°	468.2	379.0	242.9	172.4	125.5	102.3	99.6	98.4	97.6	96.9	96.1
22.5°	476.1	367.7	217.0	147.5	102.5	93.7	89.5	85.8	82.7	80.7	79.7
25°	481.5	352.7	193.3	123.6	92.2	85.2	77.6	71.4	66.6	63.8	62.6
27.5°	485.6	336.4	172.2	103.5	85.1	75.4	65.5	58.0	53.1	50.6	49.6
30°	488.5	318.0	153.6	91.0	77.1	65.1	54.5	47.2	43.6	42.3	41.6
32.5°	491.2	297.5	136.0	85.1	69.7	55.6	45.7	40.1	37.9	36.2	35.7
35°	497.9	278.6	119.2	78.8	62.1	47.5	39.2	35.2	33.0	32.0	31.6
37.5°	514.0	264.5	103.2	72.4	54.5	41.1	34.3	31.5	29.4	28.4	28.1
40°	539.9	257.4	89.6	65.5	47.0	36.2	31.1	28.4	26.2	24.7	24.4
42.5°	577.9	258.4	80.2	58.5	41.1	32.3	28.1	24.9	22.5	21.1	20.8
45°	624.1	265.9	73.6	51.8	36.2	29.3	24.7	21.3	19.1	17.9	17.6
47.5°	674.2	277.9	68.2	45.7	32.3	26.4	21.3	17.8	15.9	14.9	14.7
50°	727.0	289.6	62.6	39.7	28.9	23.5	17.9	14.7	13.2	12.3	12.0
52.5°	780.4	303.1	57.5	34.3	26.0	20.1	14.9	12.0	10.8	10.1	9.8
55°	837.9	313.2	52.6	30.1	23.2	17.1	12.3	10.0	9.0	8.1	7.9
57.5°	905.6	329.0	47.5	26.0	19.8	14.2	10.1	7.9	7.1	6.3	6.1
60°	996.9	347.4	42.1	23.0	16.2	11.7	8.3	6.4	5.4	4.7	4.6
62.5°	1117.3	367.9	35.3	20.1	13.2	9.5	6.6	5.1	3.9	3.0	3.0
65°	1270.1	401.2	28.9	16.9	10.8	7.8	5.1	3.7	2.2	1.4	1.4
67.5°	1359.2	406.9	23.3	13.9	8.8	6.6	4.2	2.5	0.7	0.2	0.0
69°	1330.6	373.6	19.8	11.8	7.6	6.3	3.9	1.9	0.3	0.0	0.0
70°	1276.8	341.7	17.4	10.5	6.9	5.9	3.7	1.4	0.3	0.0	0.0
72.5°	1055.1	243.2	13.2	7.8	5.1	5.2	3.4	0.8	0.3	0.0	0.0
75°	768.6	147.8	9.5	5.4	3.2	3.9	2.4	0.3	0.2	0.0	0.0
77.5°	427.6	69.7	5.9	3.0	2.0	2.4	1.2	0.0	0.0	0.0	0.0
80°	138.9	18.9	2.7	1.7	1.2	1.4	0.5	0.0	0.0	0.0	0.0
82.5°	25.7	5.4	1.5	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.6	2.2	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.7	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)