

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: P323035

Luminaire Tested: **GAN-SA1B-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

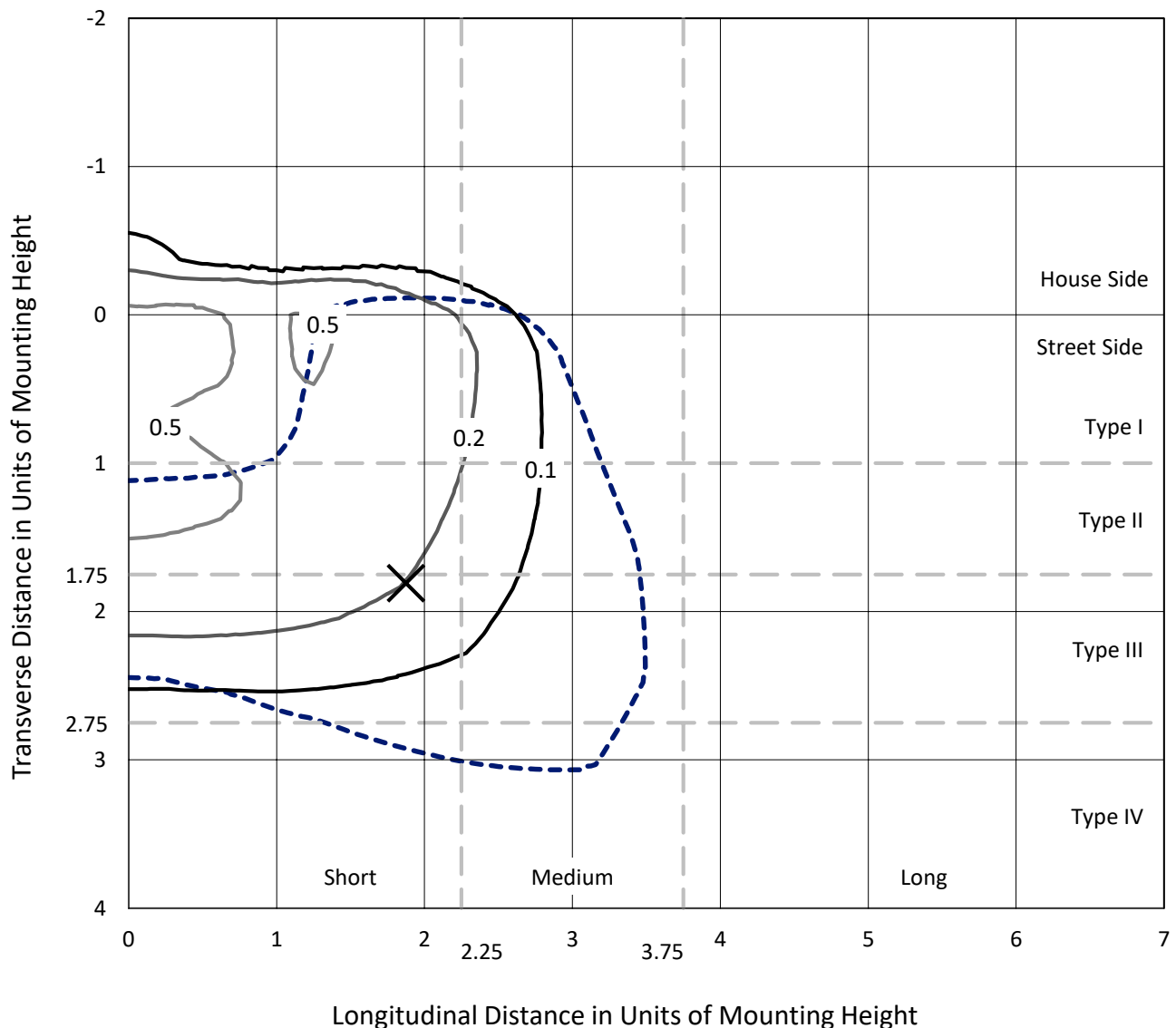
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

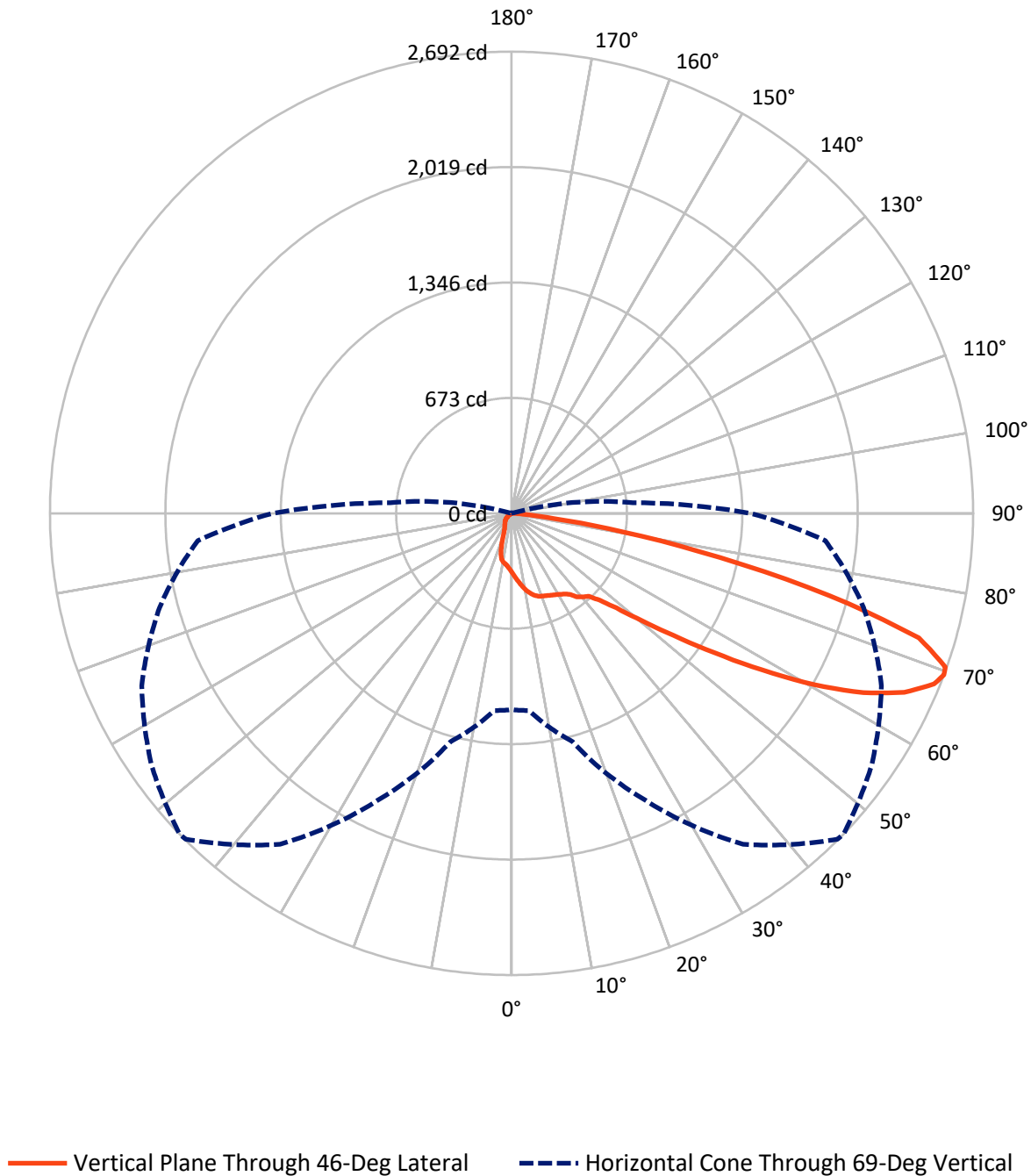
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	353.7	0.0	353.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3092.4	0.0	3092.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	3446.0	0.0	3446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.0
10°-20°	104.3	3.0
20°-30°	164.0	4.8
30°-40°	235.1	6.8
40°-50°	406.4	11.8
50°-60°	802.9	23.3
60°-70°	1122.1	32.6
70°-80°	542.1	15.7
80°-90°	34.8	1.0
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°	3446.0	100.0
0°-180°	3446.0	100.0

Coefficient of Utilization



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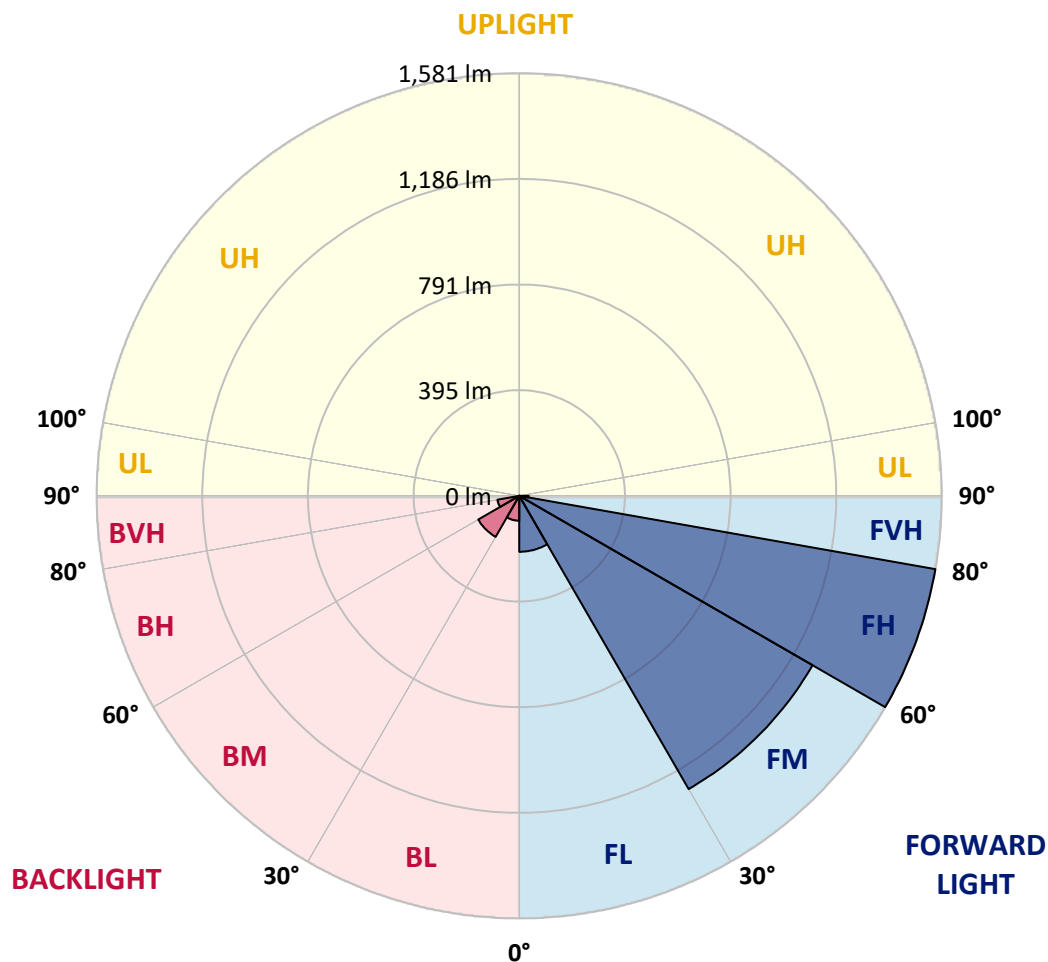
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.4	6.1			
FM	(30°-60°)	1267.2	36.8			
FH	(60°-80°)	1581.2	45.9			G1/1800
FVH	(80°-90°)	34.6	1.0			G1/100
BL	(0°-30°)	93.2	2.7	B0/110		
BM	(30°-60°)	177.2	5.1	B0/220		
BH	(60°-80°)	82.9	2.4	B0/110		G0/110
BVH	(80°-90°)	0.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3
2.5°	383.6	383.1	380.8	379.9	374.4	371.1	369.8	365.8	360.0	354.2	347.7
5°	427.2	427.0	422.8	418.8	408.5	398.8	397.0	387.6	374.5	362.2	350.0
7.5°	471.8	469.7	465.5	457.7	442.7	427.2	425.7	412.5	393.9	376.1	358.5
10°	509.6	508.3	502.8	491.0	473.4	455.8	454.0	437.7	416.7	394.9	372.4
12.5°	539.0	538.0	530.8	516.1	497.3	479.1	476.6	462.1	439.6	415.2	388.7
15°	556.9	556.4	547.6	531.9	513.5	497.6	495.5	482.8	461.9	436.4	406.5
17.5°	561.1	561.3	552.1	536.3	521.1	509.8	508.1	498.4	481.0	455.6	424.3
20°	551.8	553.7	545.5	531.7	522.4	516.4	515.1	509.3	494.6	470.7	438.5
22.5°	538.5	539.5	533.8	524.6	520.7	521.9	521.2	518.0	505.6	483.6	452.6
25°	530.4	530.4	527.0	519.3	521.9	528.8	529.0	528.3	518.5	499.4	469.7
27.5°	530.1	529.1	525.3	519.4	526.6	537.2	537.9	542.2	536.1	518.6	491.0
30°	543.0	541.9	533.7	526.1	535.1	546.6	548.2	557.7	554.7	539.5	514.8
32.5°	573.3	569.2	551.0	538.5	545.3	559.0	561.1	576.3	581.2	565.2	537.7
35°	614.6	601.9	575.5	562.1	562.8	577.1	579.1	601.4	615.7	588.8	555.5
37.5°	671.6	665.3	622.5	586.7	589.6	611.4	617.0	641.3	637.2	601.7	575.7
40°	796.7	786.8	741.3	655.5	615.3	639.2	641.0	653.9	654.2	630.9	617.7
42.5°	967.0	963.0	915.0	780.4	665.8	657.8	661.0	682.8	707.2	692.7	692.0
45°	1155.6	1153.5	1102.6	946.2	768.1	718.7	722.7	751.9	798.6	801.9	822.4
47.5°	1307.3	1306.3	1277.1	1131.2	924.7	821.9	823.2	854.2	936.3	976.9	1009.7
50°	1445.6	1450.3	1427.2	1331.3	1137.9	983.6	980.6	1001.3	1133.1	1199.5	1240.2
52.5°	1637.8	1644.5	1579.7	1518.1	1361.7	1184.3	1181.9	1203.5	1369.6	1419.4	1426.7
55°	1807.7	1796.3	1745.1	1727.4	1634.6	1432.2	1431.5	1450.6	1598.4	1619.6	1633.0
57.5°	1882.6	1878.3	1903.0	1943.7	1920.4	1725.1	1723.6	1709.1	1803.1	1805.4	1846.6
60°	1930.0	1935.3	2011.1	2136.6	2194.6	2040.3	2030.9	1942.2	1998.6	1993.6	2037.7
62.5°	1894.4	1904.9	2041.3	2250.5	2399.8	2315.5	2302.2	2155.8	2165.7	2148.4	2189.4
65°	1705.7	1722.0	1945.5	2229.0	2501.6	2530.5	2517.1	2344.4	2298.3	2269.9	2247.1
67.5°	1385.0	1394.7	1628.0	2042.1	2455.7	2658.8	2656.1	2509.7	2398.5	2249.4	2072.6
69°	1144.6	1154.1	1378.7	1845.3	2354.7	2686.3	2691.6	2562.7	2379.4	2124.7	1836.4
70°	969.4	979.6	1188.8	1676.6	2237.6	2673.5	2683.0	2557.7	2324.8	1980.2	1629.1
72.5°	508.5	517.2	731.9	1155.1	1824.1	2454.9	2483.8	2341.5	1970.7	1438.1	963.3
75°	159.8	164.8	285.8	603.8	1248.9	1908.8	1915.4	1836.7	1399.4	791.0	401.2
77.5°	60.9	59.5	95.2	222.5	631.4	1201.9	1242.5	1147.8	734.3	279.7	92.6
80°	32.8	33.0	49.4	92.1	270.1	617.7	651.9	556.3	260.9	87.2	21.3
82.5°	14.2	14.9	27.8	48.8	124.1	227.8	244.9	203.9	99.7	58.7	7.9
85°	3.1	3.4	13.4	26.5	50.6	64.0	67.1	66.1	63.5	45.6	3.1
87.5°	0.0	0.0	6.0	9.5	12.8	14.5	12.8	16.6	35.1	30.7	1.6
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°	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3
2.5°	345.6	342.7	337.7	332.2	328.3	324.3	321.0	319.6	318.0	316.8	318.3
5°	345.0	339.3	329.6	320.2	313.4	308.0	303.4	301.7	299.9	298.6	298.4
7.5°	350.6	342.7	327.8	314.1	303.6	296.2	290.0	287.4	285.3	284.4	283.6
10°	361.4	351.3	331.4	313.4	299.9	287.3	274.0	263.8	257.2	254.2	253.0
12.5°	375.5	362.7	338.2	316.8	297.1	272.9	244.8	220.5	204.9	199.7	196.6
15°	392.0	376.1	347.1	321.2	287.1	242.8	195.2	163.5	149.0	146.1	142.8
17.5°	407.8	390.4	357.7	322.0	265.1	194.0	143.0	121.5	115.8	117.8	118.3
20°	421.7	404.4	368.2	314.9	225.2	145.6	110.7	105.3	107.4	111.2	111.8
22.5°	435.8	418.0	377.9	296.2	174.2	110.5	99.7	101.0	103.1	106.8	107.4
25°	452.9	434.5	387.0	261.7	130.7	94.0	94.7	96.6	98.7	102.1	102.4
27.5°	472.6	455.3	392.9	217.0	96.9	86.4	88.5	91.4	93.5	96.8	97.4
30°	498.8	482.8	394.9	170.6	81.3	79.7	80.6	84.2	87.2	90.2	90.6
32.5°	523.3	509.9	388.4	128.8	75.3	73.4	73.4	75.5	79.0	81.8	82.4
35°	545.9	537.2	367.7	94.2	70.8	67.5	65.9	65.9	68.2	70.4	71.1
37.5°	575.8	575.5	334.3	75.1	66.4	62.7	59.3	56.7	55.9	56.4	56.7
40°	627.1	627.5	290.7	67.4	62.7	57.7	52.5	47.8	43.5	42.0	41.8
42.5°	707.0	699.8	244.9	63.7	59.5	52.5	44.8	38.5	31.7	29.6	29.4
45°	834.0	790.9	196.5	60.3	56.1	46.7	37.0	28.4	22.9	21.3	21.3
47.5°	1019.0	910.6	152.2	56.5	51.5	40.1	28.0	20.5	16.8	16.0	16.2
50°	1210.3	1027.9	116.7	51.9	46.0	33.1	20.7	14.9	12.8	12.8	12.9
52.5°	1380.0	1113.9	91.0	46.9	39.3	26.0	15.7	11.6	10.7	10.5	10.7
55°	1538.8	1169.3	69.6	41.0	31.2	19.4	12.0	9.5	8.9	8.6	8.4
57.5°	1692.0	1196.8	52.2	33.1	22.6	14.1	9.5	8.1	7.4	6.9	6.8
60°	1793.9	1174.5	35.9	24.4	15.7	10.2	7.9	6.9	6.1	5.7	5.5
62.5°	1851.4	1113.5	23.1	17.6	11.1	7.6	6.3	5.8	4.7	4.2	4.2
65°	1828.2	1013.0	16.2	12.6	8.1	5.7	4.7	4.7	3.4	2.7	2.6
67.5°	1620.1	855.8	12.3	9.4	5.8	4.2	3.6	4.0	2.1	1.3	1.3
69°	1393.9	709.3	10.5	7.8	4.8	3.4	3.1	3.7	1.5	1.0	0.8
70°	1211.5	611.9	9.5	6.8	4.0	2.9	2.7	3.6	1.5	0.8	0.6
72.5°	724.8	341.2	7.3	4.8	2.6	2.3	2.3	4.0	1.5	0.8	0.6
75°	292.9	120.2	5.3	3.4	1.9	1.9	2.7	5.2	1.3	0.6	0.5
77.5°	66.4	26.3	3.1	2.1	1.3	1.9	3.2	4.0	0.8	0.3	0.0
80°	16.2	6.5	1.9	1.3	0.8	1.5	2.4	2.3	0.2	0.0	0.0
82.5°	5.3	2.3	0.8	0.6	0.2	0.5	1.1	0.6	0.0	0.0	0.0
85°	2.3	1.3	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.0	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)