

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: P321705

Luminaire Tested: **GAN-SA1A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

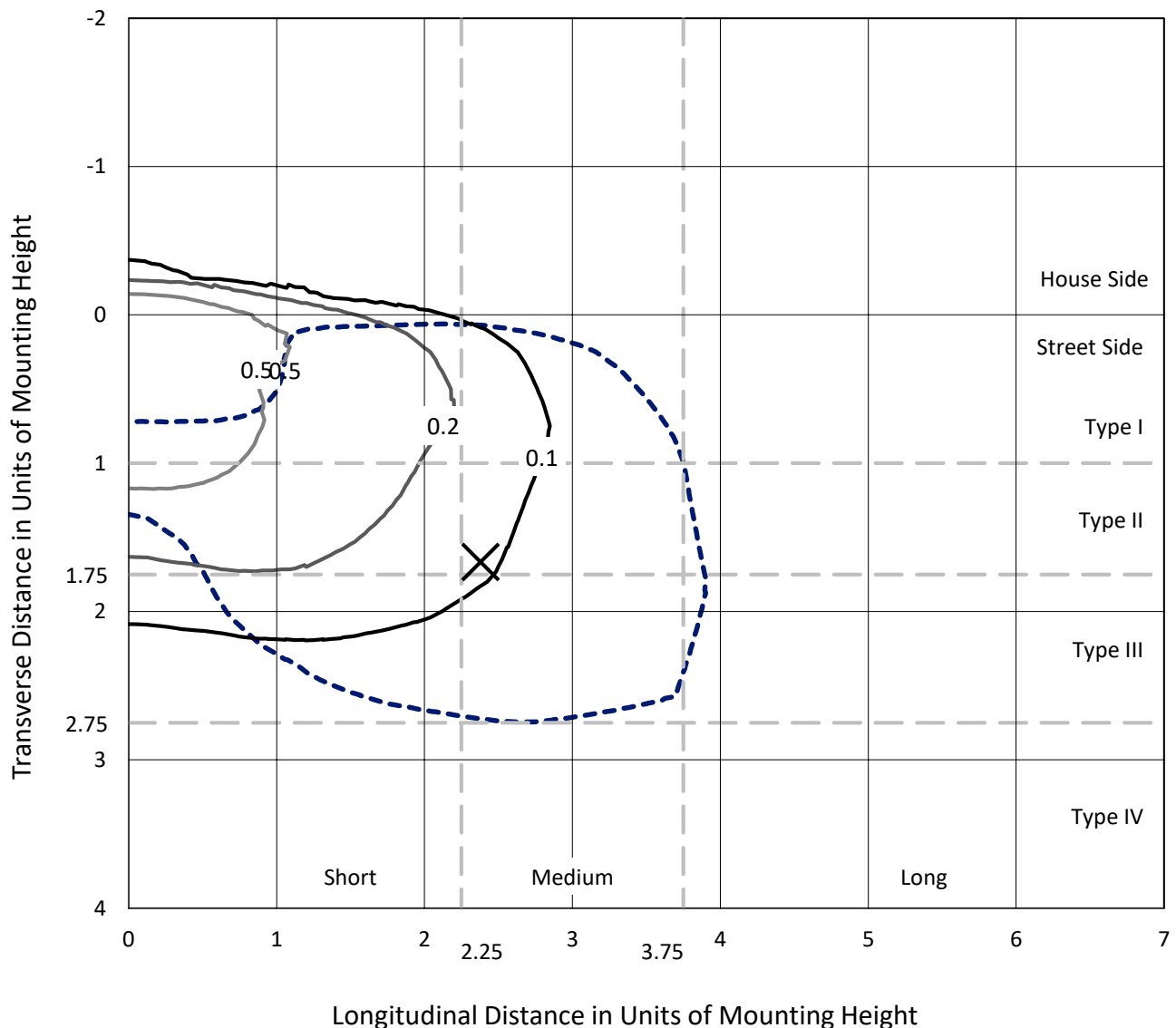
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

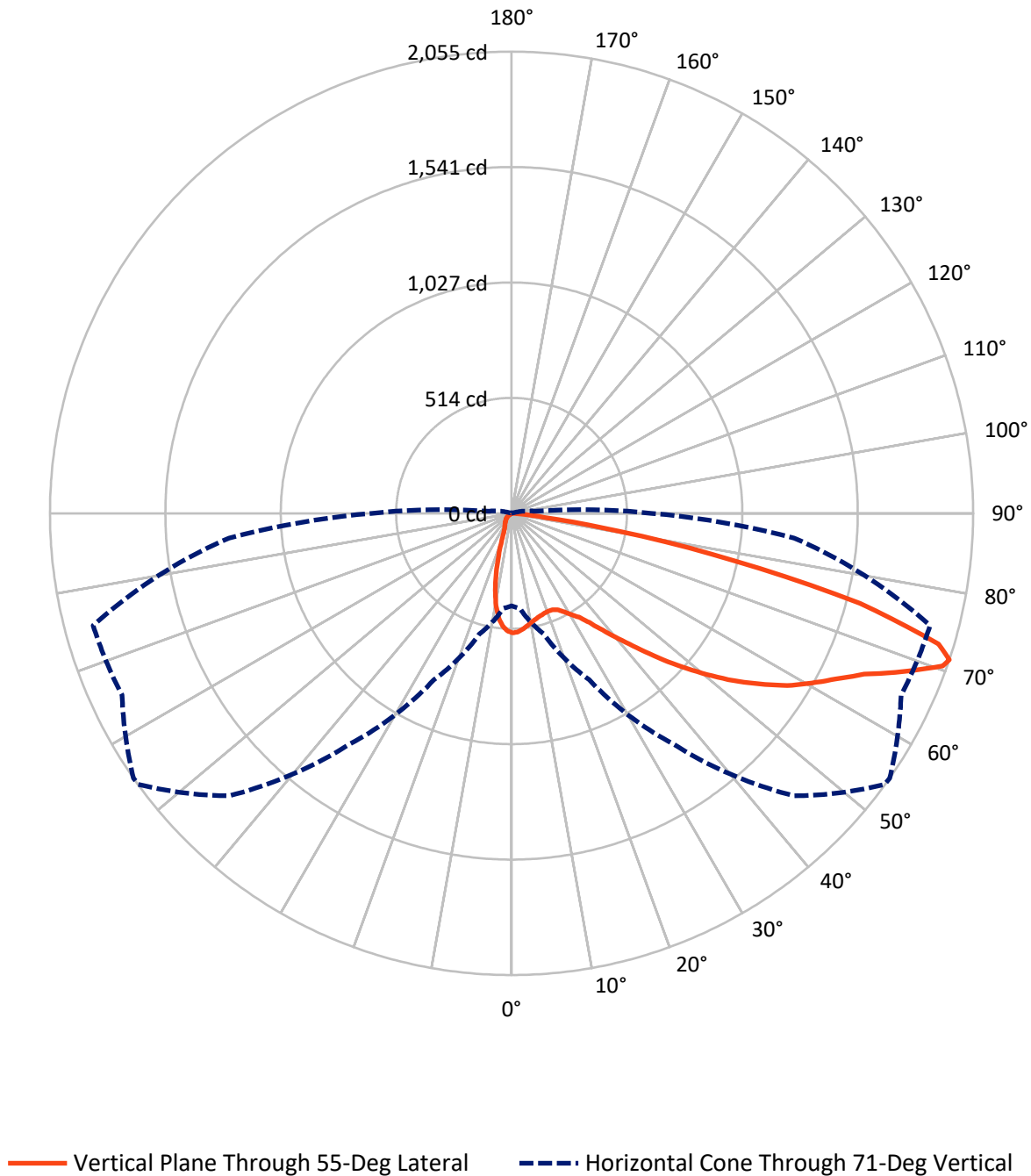
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.4	0.0	218.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	2539.6	0.0	2539.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	2758.0	0.0	2758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.6
10°-20°	102.4	3.7
20°-30°	164.5	6.0
30°-40°	279.5	10.1
40°-50°	433.9	15.7
50°-60°	583.4	21.2
60°-70°	713.6	25.9
70°-80°	417.3	15.1
80°-90°	18.0	0.7
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°	2758.0	100.0
0°-180°	2758.0	100.0

Coefficient of Utilization



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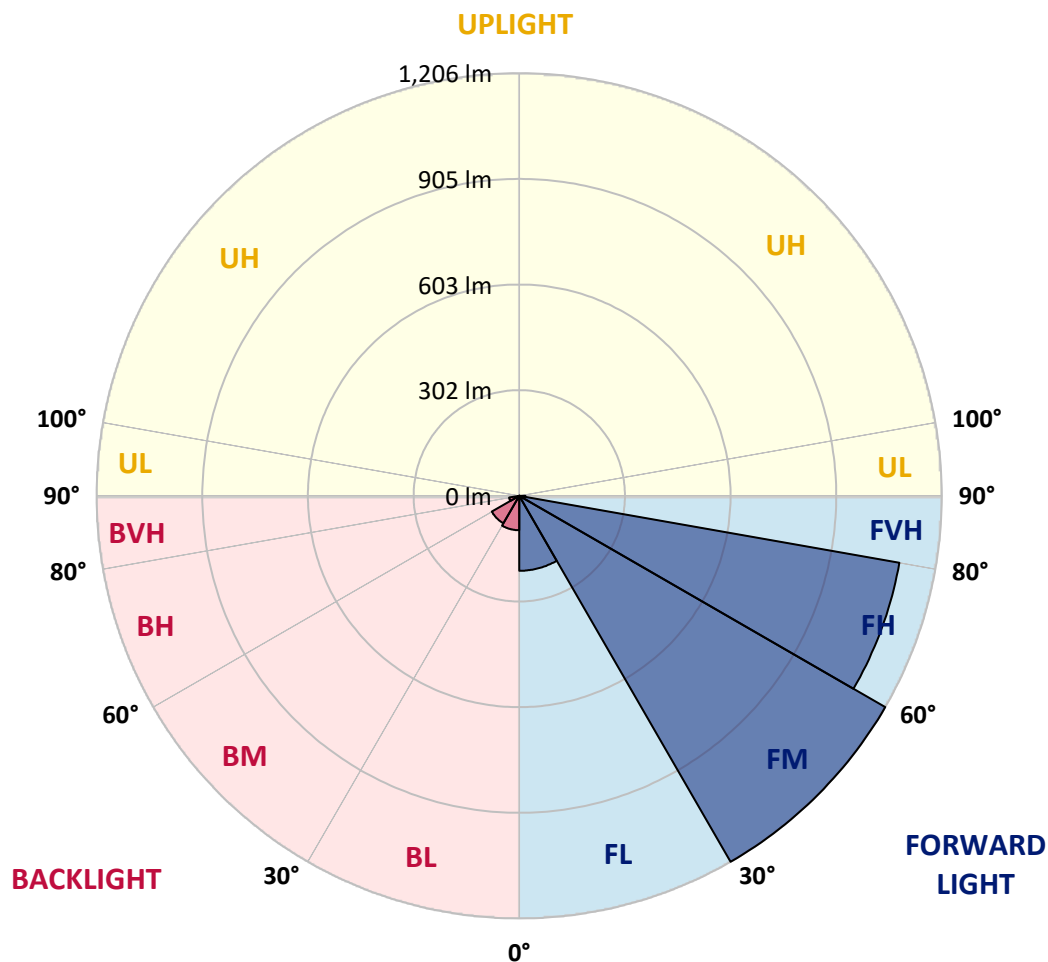
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.0	7.8			
FM	(30°-60°)	1206.3	43.7			
FH	(60°-80°)	1101.6	39.9			G1/1800
FVH	(80°-90°)	17.8	0.6			G1/100
BL	(0°-30°)	98.3	3.6	B0/110		
BM	(30°-60°)	90.5	3.3	B0/220		
BH	(60°-80°)	29.3	1.1	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	516.3	516.9	519.1	520.1	522.5	526.4	528.4	528.5	531.8	533.0	534.0
5°	479.8	483.5	487.2	491.1	498.3	507.9	517.3	518.1	528.5	536.2	540.3
7.5°	448.3	451.6	456.1	462.4	472.6	487.6	503.3	505.1	524.8	542.3	551.5
10°	416.0	418.7	425.1	434.4	448.4	468.5	489.7	492.8	521.5	550.5	566.6
12.5°	381.4	383.0	390.8	404.2	424.8	450.3	478.1	482.2	519.4	559.9	584.4
15°	355.2	355.9	363.3	377.2	400.7	433.9	469.2	474.2	519.9	571.1	603.8
17.5°	348.5	348.9	352.8	362.4	383.2	419.3	462.2	468.2	521.4	582.2	623.4
20°	375.6	373.0	368.9	367.4	376.3	410.5	458.0	464.8	523.3	592.0	641.0
22.5°	450.0	442.4	425.4	402.7	389.0	411.1	459.1	465.9	529.7	604.0	661.3
25°	560.5	549.8	521.0	476.4	433.6	429.0	468.4	475.3	541.9	618.3	680.7
27.5°	686.2	675.7	640.4	576.7	503.7	464.3	489.7	496.1	560.1	631.1	695.6
30°	806.6	803.6	762.0	689.7	591.8	521.5	517.2	522.6	573.6	638.8	707.4
32.5°	908.6	903.9	870.5	800.1	692.8	590.2	549.5	551.1	583.8	648.7	722.7
35°	1003.2	997.4	968.1	901.6	796.3	674.2	599.3	596.9	605.9	668.6	745.0
37.5°	1085.8	1091.1	1058.6	995.3	889.2	761.5	666.4	659.3	640.6	701.1	777.3
40°	1154.9	1154.9	1138.0	1085.2	989.5	851.8	742.3	733.0	692.8	751.1	818.3
42.5°	1179.8	1185.1	1191.5	1161.6	1079.3	945.6	826.9	817.2	766.2	822.0	870.1
45°	1181.3	1189.7	1222.0	1221.9	1160.4	1038.9	922.2	917.6	860.3	913.2	934.2
47.5°	1160.4	1170.9	1224.2	1254.4	1224.6	1125.7	1026.5	1020.8	970.9	1024.9	1001.4
50°	1128.1	1139.7	1201.6	1267.1	1268.4	1201.2	1136.4	1127.8	1092.6	1152.6	1070.7
52.5°	1070.2	1092.8	1181.4	1270.1	1297.1	1266.5	1240.9	1237.2	1228.9	1275.5	1125.9
55°	946.5	971.5	1130.8	1271.1	1323.7	1324.3	1338.8	1339.8	1356.5	1390.5	1167.1
57.5°	888.1	902.2	1042.4	1275.8	1363.2	1390.0	1438.6	1446.3	1472.2	1499.6	1214.0
60°	851.3	868.0	998.8	1269.4	1425.3	1476.0	1531.2	1533.8	1561.5	1612.1	1277.5
62.5°	821.9	838.4	971.3	1244.6	1495.0	1579.6	1621.6	1621.8	1642.6	1746.3	1349.7
65°	749.5	763.3	915.7	1216.7	1541.1	1682.0	1726.6	1725.0	1741.9	1887.7	1433.6
67.5°	644.7	655.4	802.1	1111.1	1523.7	1775.1	1885.1	1879.8	1859.2	2009.9	1466.5
70°	498.5	502.3	632.2	925.9	1361.2	1810.9	2038.3	2035.5	1931.2	1988.0	1345.8
71°	412.0	424.6	557.2	817.2	1252.4	1777.8	2053.1	2054.7	1913.1	1928.3	1262.7
72.5°	239.3	250.0	403.8	627.6	1063.3	1639.9	1976.1	1987.7	1828.6	1753.9	1078.5
75°	51.3	54.9	149.7	303.8	584.9	1149.4	1559.8	1601.2	1490.4	1193.2	650.0
77.5°	35.7	38.5	64.1	137.8	193.3	567.9	968.9	1015.7	890.4	448.4	208.1
80°	28.2	31.5	50.0	68.1	52.3	183.2	453.9	482.5	297.0	100.1	35.0
82.5°	15.7	18.7	39.0	36.8	20.1	34.8	127.1	143.7	59.4	20.2	8.3
85°	4.6	5.6	25.1	26.7	8.5	6.7	21.7	26.9	11.3	5.3	3.7
87.5°	0.0	0.0	12.1	10.3	2.5	1.0	2.0	2.2	2.2	2.2	2.5
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°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	534.0	534.9	531.8	527.7	523.3	518.0	512.4	508.1	508.0	505.9	503.8
5°	540.6	540.1	531.5	518.5	503.2	487.2	472.0	454.7	449.0	442.0	439.6
7.5°	552.7	549.2	531.1	502.7	469.0	435.5	401.0	366.2	351.3	338.0	335.6
10°	567.9	561.4	528.8	478.9	417.1	355.4	303.3	256.0	235.2	219.2	218.5
12.5°	583.8	573.7	522.2	443.0	349.1	262.4	202.4	155.8	138.5	127.3	128.3
15°	600.4	585.4	508.1	394.6	271.7	178.1	124.3	97.0	90.0	87.2	87.9
17.5°	617.3	593.4	488.4	336.2	195.3	114.9	86.1	78.4	78.4	79.0	79.3
20°	632.1	597.8	459.4	270.8	132.4	83.7	75.3	74.2	74.8	75.8	75.9
22.5°	646.7	598.0	421.7	204.6	92.6	73.3	71.7	71.2	71.6	72.7	72.8
25°	658.6	595.0	374.4	145.5	73.9	69.1	68.4	68.1	68.4	69.7	69.7
27.5°	663.4	584.3	316.7	102.3	66.3	64.4	64.1	64.4	64.8	65.8	65.9
30°	663.9	565.5	253.7	74.1	60.1	58.1	58.6	59.4	59.1	58.8	59.1
32.5°	665.1	543.7	192.4	60.9	54.9	51.8	51.1	51.1	49.7	48.8	48.3
35°	669.2	518.0	139.6	54.7	49.5	45.9	43.6	40.9	38.0	36.5	36.2
37.5°	675.7	491.1	99.9	50.7	44.8	40.7	36.3	31.5	27.4	26.3	26.3
40°	687.4	463.4	73.9	47.4	41.1	36.0	29.3	23.0	19.3	18.7	18.7
42.5°	706.0	434.2	58.9	44.6	37.9	31.2	22.4	16.7	14.0	13.6	13.5
45°	725.3	402.0	51.5	41.9	34.4	25.6	16.6	12.4	10.8	10.4	10.4
47.5°	744.6	367.7	47.9	39.3	31.1	19.9	12.4	9.8	9.0	9.0	9.2
50°	761.0	331.9	45.3	36.4	26.7	15.1	9.8	8.3	8.0	8.5	8.7
52.5°	765.1	296.7	42.1	32.8	21.4	11.5	8.0	7.3	7.3	7.3	7.3
55°	762.6	269.5	37.9	28.4	15.9	9.2	6.9	6.4	6.3	6.3	6.3
57.5°	771.0	253.4	30.3	22.0	11.4	7.4	6.1	5.7	5.4	5.3	5.3
60°	788.0	242.8	21.7	15.9	8.5	6.2	5.2	4.8	4.5	4.2	4.2
62.5°	810.5	233.7	16.1	11.8	6.6	5.0	4.3	4.0	3.5	3.2	3.2
65°	827.9	217.3	12.3	8.8	5.0	4.0	3.3	3.2	2.5	2.2	2.1
67.5°	801.4	181.4	9.9	6.4	3.7	3.1	2.6	2.5	1.5	1.2	1.2
70°	687.3	126.3	7.9	4.7	2.7	2.5	2.1	1.6	1.1	1.0	1.0
71°	623.3	105.5	7.2	4.0	2.4	2.4	2.0	1.4	1.0	0.9	0.9
72.5°	517.8	74.9	6.1	3.1	2.1	2.5	2.1	1.2	1.0	0.9	0.7
75°	300.6	31.3	4.2	2.1	1.6	3.0	2.7	1.1	0.7	0.6	0.6
77.5°	90.4	11.5	2.4	1.4	1.2	2.6	3.1	1.0	0.4	0.1	0.1
80°	16.5	5.0	1.5	0.9	0.9	1.6	2.4	0.5	0.0	0.0	0.0
82.5°	5.8	2.5	0.9	0.5	0.4	0.7	1.1	0.0	0.0	0.0	0.0
85°	3.3	1.7	0.5	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.0
87.5°	2.2	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)