

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: P321385

Luminaire Tested: **GAN-SA1A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2896 lumens
Efficiency: N/A
Efficacy: 85.2 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

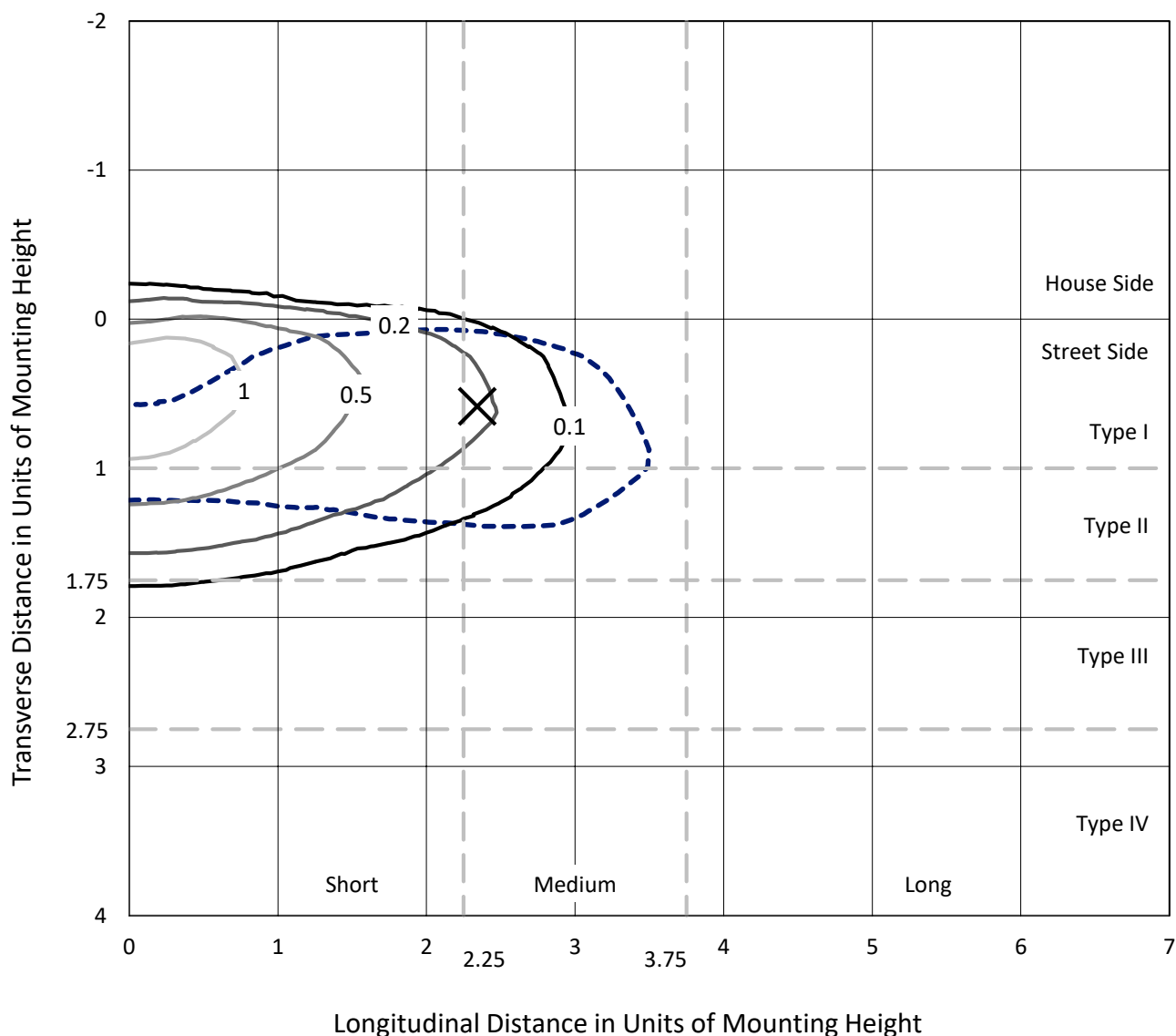
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

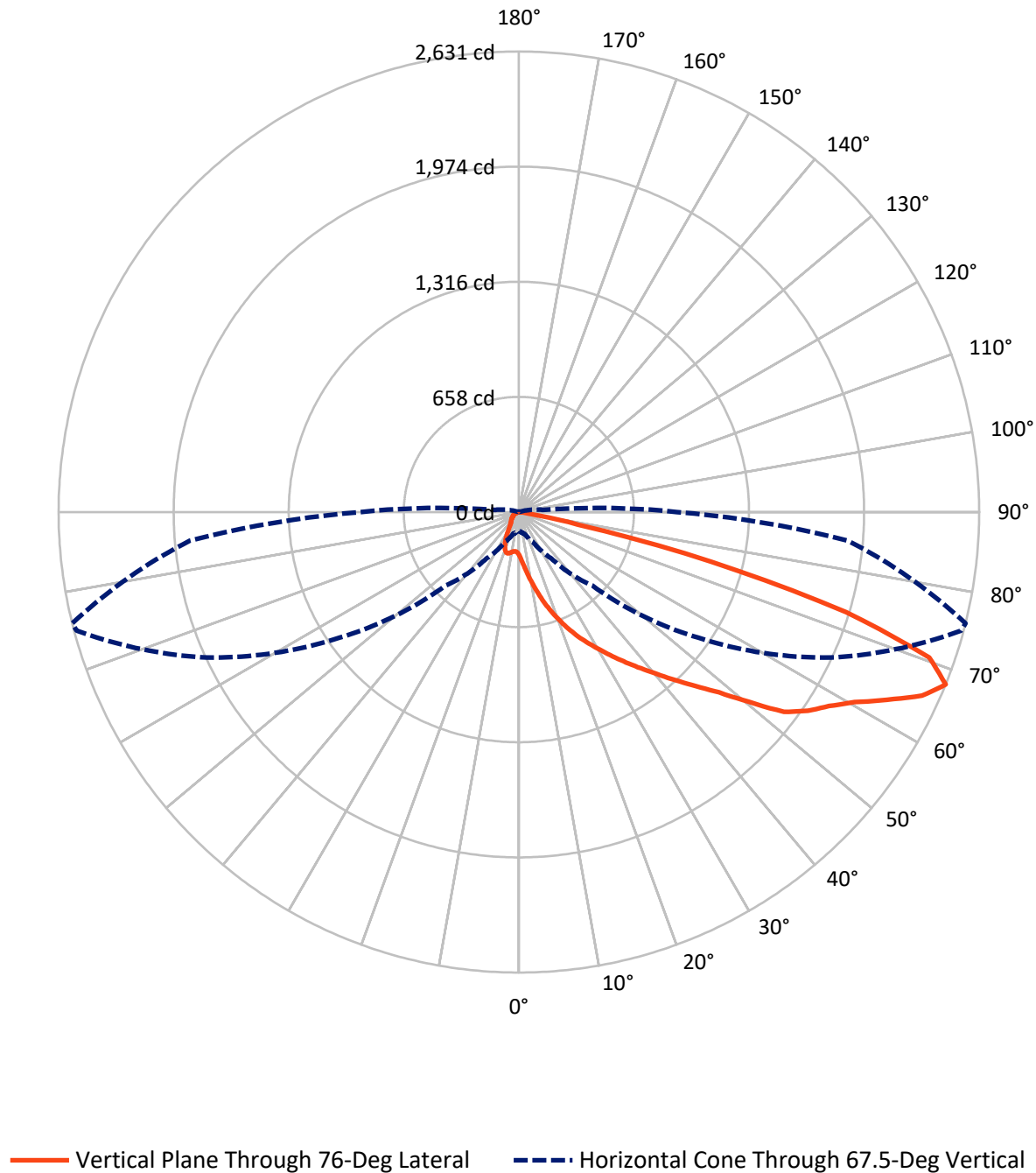
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	143.8	0.0	143.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2752.2	0.0	2752.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	2896.0	0.0	2896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	121.1	4.2
20°-30°	246.4	8.5
30°-40°	427.7	14.8
40°-50°	604.2	20.9
50°-60°	685.2	23.7
60°-70°	568.3	19.6
70°-80°	205.9	7.1
80°-90°	6.7	0.2
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°	2896.0	100.0
0°-180°	2896.0	100.0

Coefficient of Utilization



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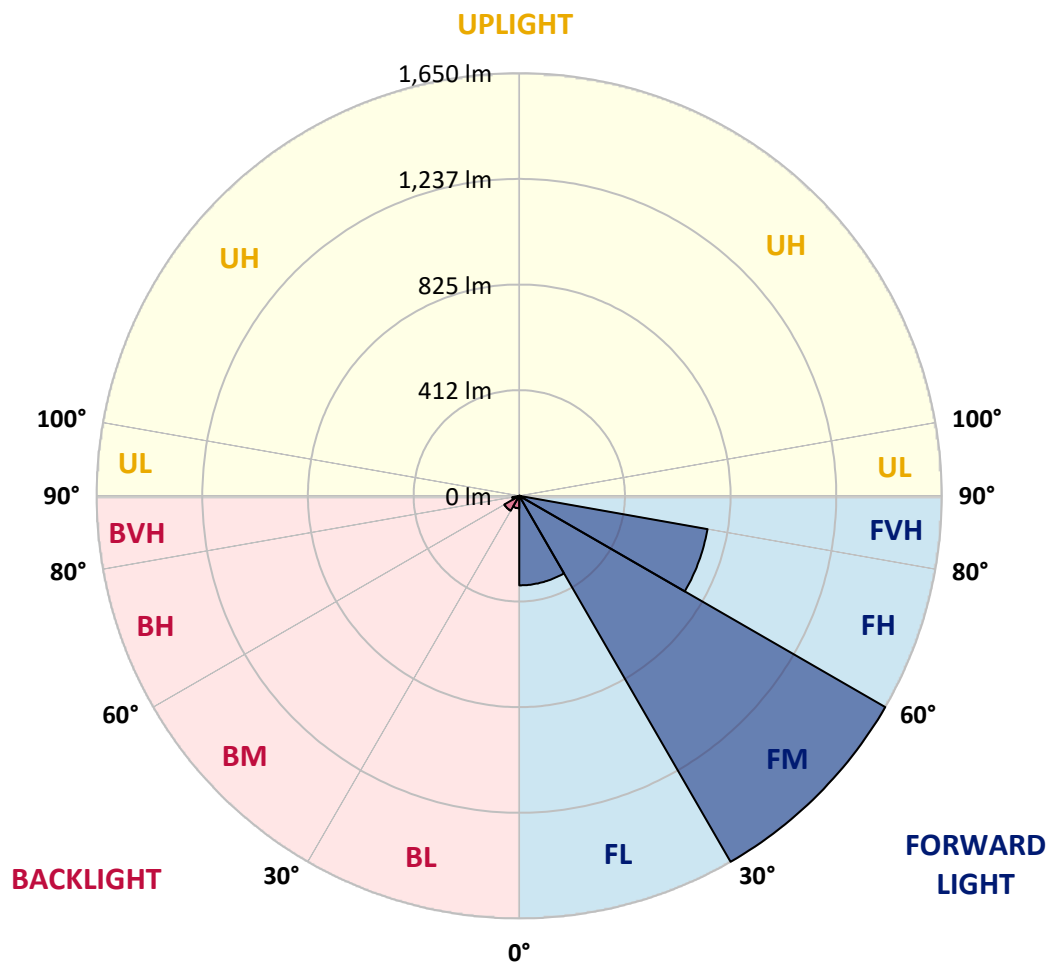
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.5	12.1			
FM	(30°-60°)	1649.8	57.0			
FH	(60°-80°)	746.4	25.8			G1/1800
FVH	(80°-90°)	6.5	0.2			G0/10
BL	(0°-30°)	48.5	1.7	B0/110		
BM	(30°-60°)	67.3	2.3	B0/220		
BH	(60°-80°)	27.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	75°	76°	85°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	366.7	358.5	360.4	355.0	345.4	325.6	308.7	292.7	274.1	273.5	258.1
5°	494.5	487.5	486.6	475.8	458.3	424.7	392.0	354.7	313.0	310.0	277.4
7.5°	610.5	604.9	602.9	590.1	557.4	524.7	482.1	427.2	362.2	356.6	303.4
10°	699.6	696.9	697.4	688.3	660.4	629.9	573.9	504.0	417.9	409.2	334.6
12.5°	767.1	767.7	772.3	766.7	751.1	728.5	668.7	585.9	479.5	467.7	370.3
15°	816.7	819.9	828.2	835.2	834.1	814.5	759.7	669.0	545.0	531.9	410.0
17.5°	848.8	852.3	864.5	880.0	894.2	889.6	847.5	749.2	611.2	596.1	452.5
20°	877.0	881.1	894.2	914.6	941.2	946.9	919.2	827.0	677.4	659.0	496.4
22.5°	938.0	937.9	945.9	957.8	983.0	997.8	980.2	899.2	742.7	723.5	541.2
25°	1048.4	1044.2	1041.4	1032.0	1037.6	1046.7	1037.0	966.7	808.4	789.0	586.6
27.5°	1179.6	1182.1	1159.5	1134.3	1114.8	1105.4	1089.4	1029.2	871.6	850.3	631.0
30°	1318.0	1318.8	1292.2	1259.9	1216.9	1181.2	1153.6	1089.0	936.6	913.4	674.2
32.5°	1442.9	1438.0	1411.6	1367.7	1313.3	1273.2	1215.8	1155.7	1005.4	982.9	722.1
35°	1541.9	1536.0	1503.9	1464.0	1407.6	1367.3	1298.1	1222.4	1077.7	1055.7	770.2
37.5°	1614.2	1607.4	1574.4	1533.2	1484.6	1461.2	1393.7	1294.8	1156.6	1133.0	820.9
40°	1639.3	1633.4	1612.7	1582.6	1543.5	1538.2	1495.1	1378.2	1242.5	1217.4	878.2
42.5°	1624.4	1618.5	1611.2	1601.0	1584.8	1589.8	1590.7	1473.2	1338.0	1313.2	941.5
45°	1565.0	1559.8	1567.4	1582.2	1602.4	1627.5	1678.0	1575.4	1444.5	1418.2	1014.8
47.5°	1477.5	1473.7	1494.8	1531.9	1590.9	1660.1	1757.8	1682.7	1564.2	1539.7	1106.1
50°	1353.2	1352.6	1394.7	1462.3	1553.0	1675.9	1840.3	1804.8	1730.4	1704.7	1233.1
52.5°	1159.5	1160.8	1243.7	1351.9	1486.7	1665.2	1893.4	1961.6	1923.8	1897.0	1343.2
55°	975.2	982.8	1041.5	1197.6	1384.9	1625.6	1911.6	2034.9	2030.5	2005.2	1404.3
57.5°	794.6	808.4	865.0	1010.8	1236.3	1534.4	1901.6	2066.6	2110.0	2090.6	1485.0
60°	598.9	605.3	670.5	806.8	1045.6	1367.9	1828.9	2083.8	2218.6	2205.1	1602.1
62.5°	381.1	396.9	454.8	586.2	814.1	1136.7	1706.3	2083.6	2354.5	2361.9	1753.3
65°	200.7	219.3	250.0	363.3	559.5	878.5	1522.0	2064.0	2521.2	2531.5	1871.4
67.5°	108.2	113.6	129.8	188.6	324.5	595.1	1251.0	1967.6	2617.8	2631.4	1887.9
70°	79.2	82.1	88.2	104.3	163.3	345.7	912.9	1749.0	2493.3	2488.2	1677.4
72.5°	60.8	65.3	69.9	76.4	93.9	184.5	568.4	1369.6	1989.4	1955.9	1253.8
75°	48.0	48.7	55.2	61.0	70.4	105.1	252.4	797.6	1214.2	1134.9	650.2
77.5°	38.3	38.8	42.6	47.7	56.6	69.0	78.2	313.8	387.7	345.9	141.1
80°	22.7	24.0	31.7	36.8	47.0	43.5	28.6	68.1	60.5	54.8	23.7
82.5°	12.7	13.7	17.9	29.1	32.7	20.8	14.2	18.4	14.2	13.8	6.7
85°	0.0	0.6	11.5	18.0	13.3	4.6	6.0	6.1	4.2	3.9	2.7
87.5°	0.0	0.0	3.6	3.4	0.5	0.8	1.4	2.0	1.6	1.6	1.4
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°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	250.5	243.6	230.7	218.0	207.3	198.6	190.7	187.5	185.0	184.6	182.6
5°	261.7	247.8	223.1	202.8	189.2	179.6	171.3	166.2	162.3	160.8	159.4
7.5°	278.5	257.6	222.1	198.7	182.5	166.2	151.0	134.5	124.2	120.3	118.0
10°	299.1	270.5	225.9	197.6	169.1	134.9	109.6	88.7	80.2	77.4	76.6
12.5°	323.1	286.7	232.5	190.5	140.7	95.8	75.6	68.5	66.6	65.7	65.7
15°	350.6	304.3	237.2	169.9	104.1	72.5	65.5	62.2	60.1	59.0	59.1
17.5°	378.8	321.5	234.9	140.1	76.8	64.5	59.3	55.7	52.9	51.8	51.5
20°	407.2	337.5	222.2	104.3	65.0	58.5	52.7	48.7	45.9	44.8	44.5
22.5°	436.6	351.1	199.9	76.5	58.4	51.9	46.2	42.3	39.6	38.6	38.1
25°	465.3	362.2	168.6	61.9	52.2	45.7	40.2	36.5	34.1	33.1	33.0
27.5°	492.1	369.1	132.5	54.7	46.7	40.1	35.1	31.9	29.8	29.1	28.9
30°	516.2	369.8	98.0	49.4	41.9	35.3	30.7	27.8	26.0	25.3	25.0
32.5°	540.6	364.4	71.3	44.5	37.4	31.1	26.6	24.4	23.1	22.5	22.5
35°	563.5	352.1	55.6	40.4	33.1	27.0	23.5	21.8	21.1	20.4	20.4
37.5°	586.0	334.5	47.2	36.7	29.1	23.6	20.7	19.7	19.0	18.4	18.4
40°	608.8	312.3	42.9	33.2	25.8	20.9	18.4	17.5	16.9	16.4	16.2
42.5°	636.9	286.7	40.1	30.1	22.8	18.5	16.2	15.2	14.7	14.2	14.0
45°	669.4	264.6	37.8	26.9	20.4	16.5	14.1	13.1	12.3	11.7	11.5
47.5°	716.2	248.6	34.8	23.5	18.1	14.3	12.2	11.0	9.9	9.3	9.1
50°	776.0	235.4	30.8	20.4	15.9	12.2	10.2	8.8	7.7	7.1	7.1
52.5°	805.6	218.1	27.3	17.8	13.3	10.3	8.2	6.6	6.1	5.5	5.5
55°	817.6	204.9	23.7	15.1	11.0	8.5	6.5	5.1	4.7	4.3	4.2
57.5°	851.1	201.1	20.7	12.8	9.1	6.7	4.9	3.8	3.6	3.0	3.0
60°	905.0	203.0	17.9	10.9	7.4	5.2	3.7	2.9	2.7	2.2	2.2
62.5°	963.2	200.6	15.1	9.4	5.7	3.8	2.5	2.2	2.2	1.3	1.1
65°	974.4	178.7	12.9	7.7	4.4	2.8	1.6	1.4	1.9	0.3	0.0
67.5°	904.4	138.6	11.2	6.0	3.3	2.2	1.3	0.6	1.6	0.0	0.0
70°	723.2	88.1	9.0	4.3	2.5	1.8	1.0	0.3	1.3	0.0	0.0
72.5°	511.4	51.1	7.1	3.0	2.2	1.4	0.8	0.0	0.8	0.0	0.0
75°	258.6	27.3	4.4	2.3	1.6	1.0	0.5	0.0	0.1	0.0	0.0
77.5°	56.0	12.7	2.8	1.6	1.1	0.6	0.3	0.0	0.0	0.0	0.0
80°	12.2	5.6	1.8	1.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	2.9	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	0.1	0.1	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)