

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: P321505

Luminaire Tested: **GAN-SA1A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321505
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-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 3137 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

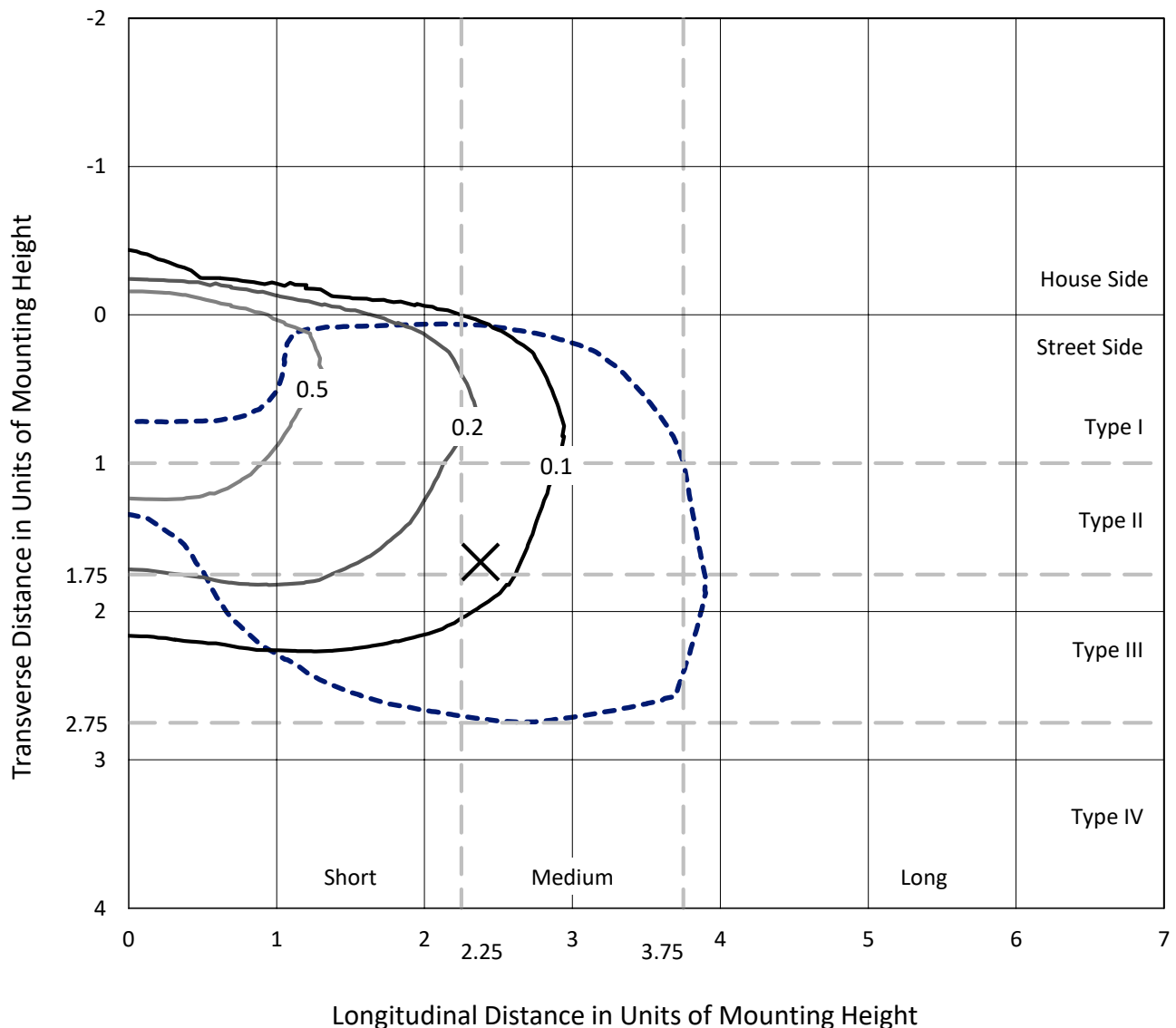
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

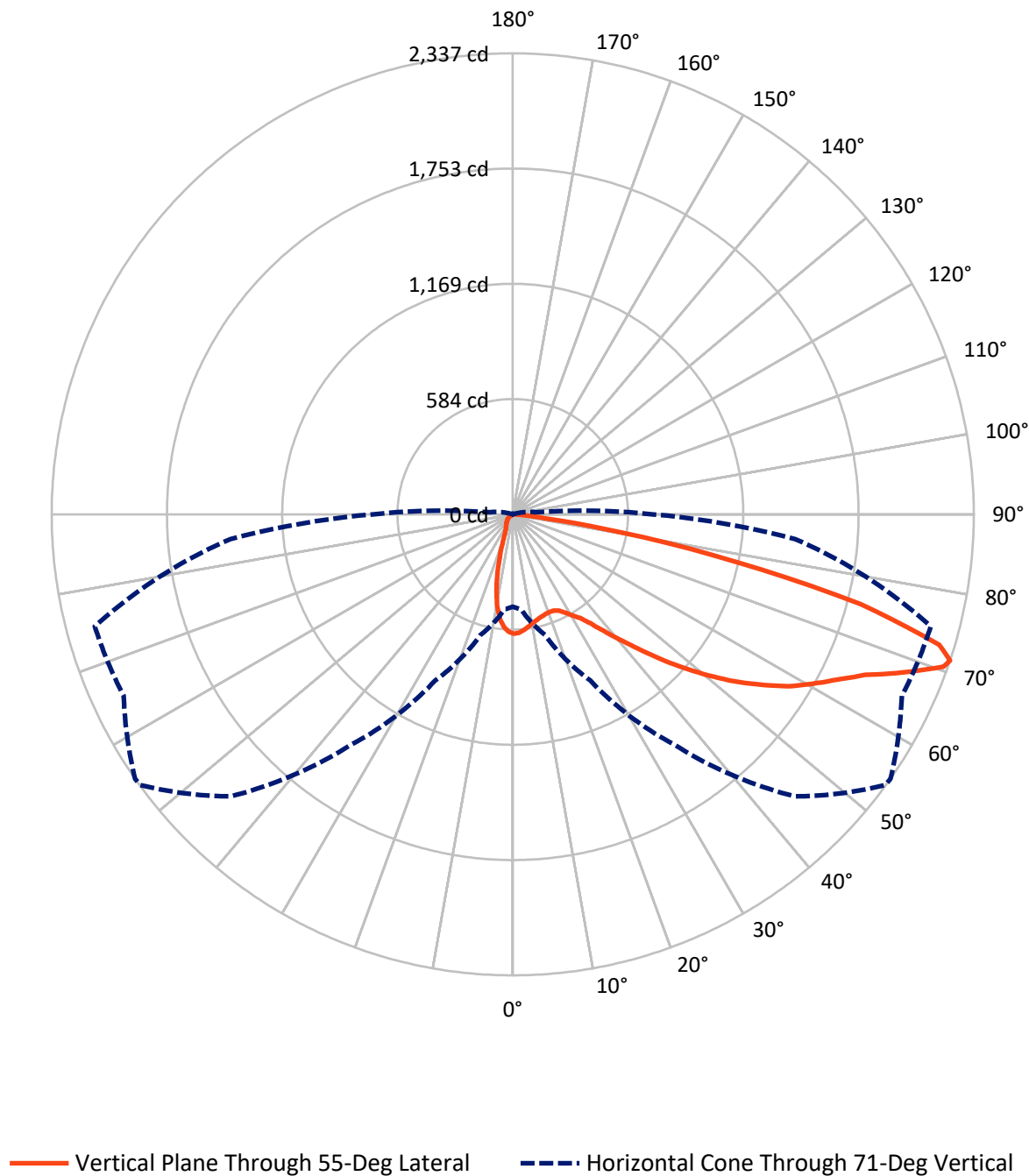
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	248.4	0.0	248.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	2888.6	0.0	2888.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	3137.0	0.0	3137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.6
10°-20°	116.5	3.7
20°-30°	187.1	6.0
30°-40°	318.0	10.1
40°-50°	493.5	15.7
50°-60°	663.5	21.2
60°-70°	811.7	25.9
70°-80°	474.6	15.1
80°-90°	20.5	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°	3137.0	100.0
0°-180°	3137.0	100.0

Coefficient of Utilization



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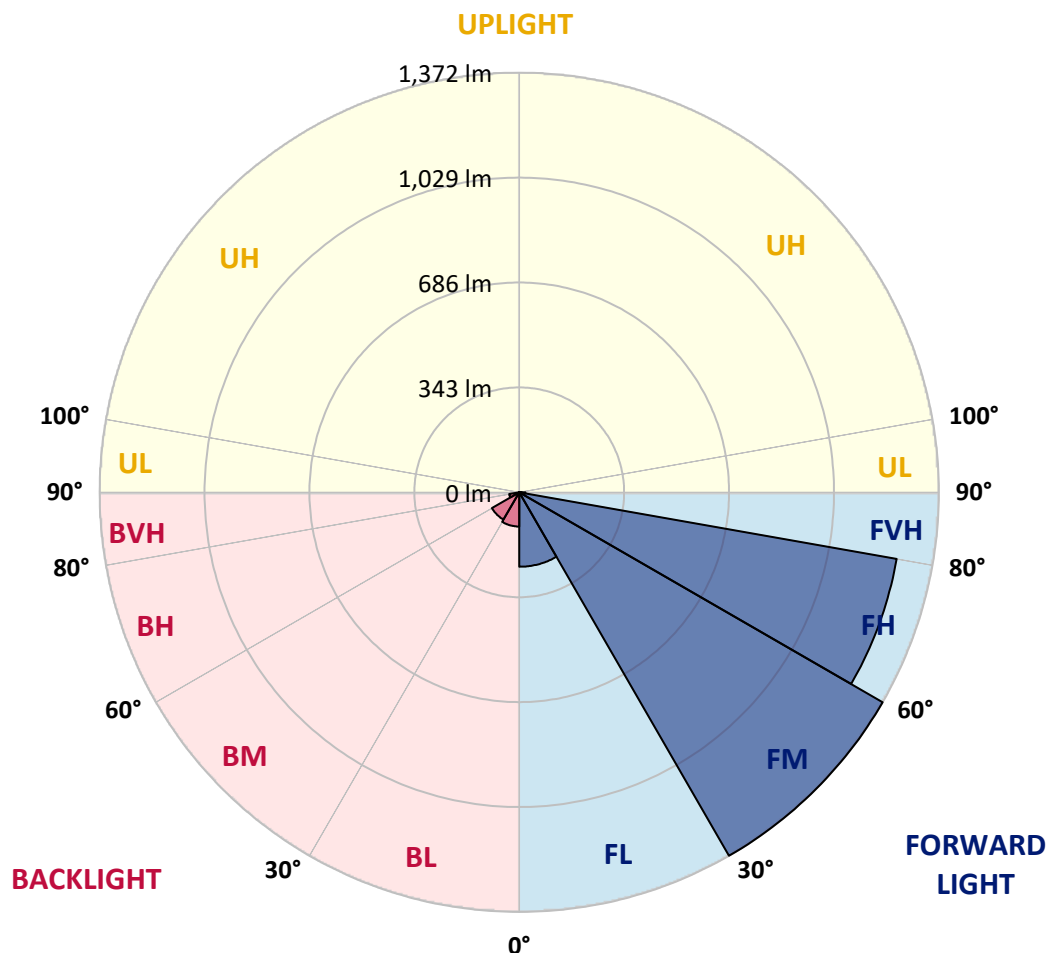
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.4	7.8			
FM	(30°-60°)	1372.0	43.7			
FH	(60°-80°)	1253.0	39.9			G1/1800
FVH	(80°-90°)	20.2	0.6			G1/100
BL	(0°-30°)	111.8	3.6	B1/500		
BM	(30°-60°)	103.0	3.3	B0/220		
BH	(60°-80°)	33.3	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: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	587.2	587.9	590.5	591.6	594.3	598.8	601.0	601.2	604.8	606.2	607.4
5°	545.7	549.9	554.1	558.6	566.8	577.7	588.4	589.3	601.2	609.9	614.6
7.5°	509.9	513.7	518.8	526.0	537.5	554.6	572.4	574.6	597.0	616.8	627.2
10°	473.1	476.2	483.6	494.1	510.0	532.9	556.9	560.5	593.1	626.1	644.4
12.5°	433.8	435.7	444.5	459.8	483.1	512.2	543.8	548.5	590.8	636.8	664.7
15°	404.0	404.8	413.3	429.1	455.8	493.6	533.7	539.3	591.3	649.6	686.8
17.5°	396.4	396.8	401.3	412.1	435.8	476.9	525.7	532.6	593.0	662.2	709.1
20°	427.2	424.3	419.6	417.9	428.1	466.9	520.9	528.6	595.3	673.3	729.1
22.5°	511.9	503.1	483.8	458.1	442.4	467.6	522.2	529.9	602.4	687.0	752.2
25°	637.5	625.4	592.6	541.9	493.1	487.9	532.7	540.6	616.4	703.3	774.3
27.5°	780.5	768.5	728.4	656.0	572.9	528.1	556.9	564.3	637.1	717.8	791.2
30°	917.4	914.0	866.7	784.4	673.2	593.1	588.2	594.4	652.5	726.5	804.6
32.5°	1033.5	1028.1	990.1	910.1	788.0	671.3	625.0	626.8	664.0	737.8	822.0
35°	1141.1	1134.5	1101.1	1025.4	905.7	766.8	681.6	678.9	689.2	760.5	847.4
37.5°	1235.0	1241.1	1204.0	1132.1	1011.4	866.1	758.0	749.9	728.7	797.4	884.2
40°	1313.6	1313.6	1294.3	1234.3	1125.4	968.8	844.3	833.7	788.0	854.3	930.8
42.5°	1341.9	1348.0	1355.2	1321.2	1227.6	1075.6	940.5	929.5	871.5	935.0	989.7
45°	1343.6	1353.2	1390.0	1389.8	1319.8	1181.7	1049.0	1043.8	978.5	1038.7	1062.6
47.5°	1319.8	1331.8	1392.4	1426.7	1392.9	1280.4	1167.6	1161.1	1104.3	1165.7	1139.0
50°	1283.1	1296.3	1366.7	1441.3	1442.7	1366.3	1292.5	1282.8	1242.8	1311.0	1217.9
52.5°	1217.3	1242.9	1343.8	1444.6	1475.3	1440.5	1411.4	1407.2	1397.7	1450.8	1280.7
55°	1076.6	1105.0	1286.2	1445.8	1505.6	1506.3	1522.8	1523.9	1542.9	1581.5	1327.4
57.5°	1010.1	1026.1	1185.6	1451.1	1550.6	1581.0	1636.3	1645.1	1674.5	1705.6	1380.8
60°	968.3	987.3	1136.0	1443.8	1621.1	1678.9	1741.6	1744.5	1776.1	1833.7	1453.1
62.5°	934.9	953.6	1104.7	1415.6	1700.4	1796.6	1844.4	1844.7	1868.3	1986.2	1535.2
65°	852.5	868.2	1041.5	1383.9	1752.8	1913.1	1963.8	1962.0	1981.3	2147.1	1630.6
67.5°	733.3	745.4	912.3	1263.8	1733.1	2019.0	2144.1	2138.1	2114.7	2286.1	1668.0
70°	567.0	571.3	719.1	1053.2	1548.3	2059.8	2318.4	2315.3	2196.5	2261.2	1530.7
71°	468.6	483.0	633.7	929.5	1424.5	2022.1	2335.3	2337.1	2176.0	2193.3	1436.2
72.5°	272.1	284.4	459.3	713.9	1209.4	1865.2	2247.7	2260.9	2079.9	1995.0	1226.7
75°	58.3	62.4	170.3	345.5	665.3	1307.3	1774.1	1821.3	1695.2	1357.2	739.4
77.5°	40.6	43.8	73.0	156.8	219.9	646.0	1102.1	1155.3	1012.8	510.0	236.6
80°	32.1	35.8	56.9	77.5	59.4	208.3	516.2	548.8	337.8	113.8	39.9
82.5°	17.9	21.3	44.4	41.8	22.8	39.6	144.5	163.4	67.6	23.0	9.4
85°	5.2	6.3	28.6	30.4	9.7	7.6	24.7	30.6	12.8	6.1	4.2
87.5°	0.0	0.0	13.8	11.7	2.8	1.1	2.3	2.5	2.5	2.5	2.8
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°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	607.4	608.4	604.8	600.2	595.3	589.2	582.9	577.9	577.8	575.4	573.0
5°	614.8	614.3	604.6	589.8	572.3	554.1	536.8	517.2	510.7	502.7	500.0
7.5°	628.6	624.7	604.1	571.7	533.4	495.4	456.1	416.5	399.6	384.4	381.7
10°	646.0	638.5	601.5	544.7	474.4	404.3	345.0	291.2	267.5	249.3	248.5
12.5°	664.0	652.6	594.0	503.8	397.1	298.5	230.2	177.2	157.5	144.8	145.9
15°	682.9	665.8	577.9	448.8	309.0	202.6	141.4	110.3	102.4	99.2	100.0
17.5°	702.2	675.0	555.5	382.4	222.1	130.7	97.9	89.2	89.2	89.9	90.1
20°	718.9	679.9	522.6	308.1	150.6	95.2	85.6	84.4	85.1	86.2	86.3
22.5°	735.6	680.2	479.6	232.7	105.4	83.4	81.6	81.0	81.4	82.7	82.8
25°	749.1	676.8	425.8	165.5	84.1	78.6	77.8	77.5	77.8	79.3	79.3
27.5°	754.6	664.6	360.2	116.3	75.4	73.2	73.0	73.2	73.7	74.8	74.9
30°	755.1	643.2	288.6	84.2	68.3	66.1	66.6	67.6	67.2	66.9	67.2
32.5°	756.5	618.4	218.9	69.3	62.4	58.9	58.2	58.2	56.5	55.5	54.9
35°	761.2	589.2	158.7	62.3	56.3	52.3	49.6	46.5	43.2	41.6	41.1
37.5°	768.5	558.6	113.7	57.6	51.0	46.3	41.3	35.8	31.1	29.9	29.9
40°	781.9	527.1	84.1	53.9	46.8	41.0	33.4	26.2	22.0	21.3	21.3
42.5°	803.0	493.8	67.0	50.7	43.1	35.5	25.5	19.0	15.9	15.5	15.4
45°	825.0	457.2	58.6	47.6	39.2	29.2	18.9	14.1	12.3	11.8	11.8
47.5°	847.0	418.2	54.5	44.7	35.4	22.7	14.1	11.1	10.3	10.3	10.4
50°	865.6	377.5	51.6	41.4	30.4	17.2	11.1	9.4	9.2	9.7	9.9
52.5°	870.2	337.5	47.9	37.3	24.4	13.1	9.2	8.3	8.3	8.3	8.3
55°	867.4	306.5	43.1	32.3	18.0	10.4	7.9	7.3	7.2	7.2	7.2
57.5°	877.0	288.2	34.5	25.1	13.0	8.5	6.9	6.5	6.2	6.1	6.1
60°	896.3	276.2	24.7	18.0	9.7	7.0	5.9	5.5	5.1	4.8	4.8
62.5°	921.9	265.8	18.3	13.4	7.5	5.6	4.9	4.5	3.9	3.7	3.7
65°	941.6	247.2	13.9	10.0	5.6	4.5	3.8	3.7	2.8	2.5	2.4
67.5°	911.5	206.4	11.3	7.3	4.2	3.5	3.0	2.8	1.7	1.4	1.4
70°	781.8	143.7	9.0	5.4	3.1	2.8	2.4	1.8	1.3	1.1	1.1
71°	708.9	120.0	8.2	4.5	2.7	2.7	2.3	1.5	1.1	1.0	1.0
72.5°	588.9	85.2	6.9	3.5	2.4	2.8	2.4	1.4	1.1	1.0	0.8
75°	341.9	35.6	4.8	2.4	1.8	3.4	3.1	1.3	0.8	0.7	0.7
77.5°	102.8	13.1	2.7	1.5	1.4	3.0	3.5	1.1	0.4	0.1	0.1
80°	18.7	5.6	1.7	1.0	1.0	1.8	2.7	0.6	0.0	0.0	0.0
82.5°	6.6	2.8	1.0	0.6	0.4	0.8	1.3	0.0	0.0	0.0	0.0
85°	3.8	2.0	0.6	0.3	0.0	0.1	0.3	0.0	0.0	0.0	0.0
87.5°	2.5	0.6	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)