

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: P321745

Luminaire Tested: **GAN-SA1A-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321745
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 2982 lumens
Efficiency: N/A
Efficacy: 87.7 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

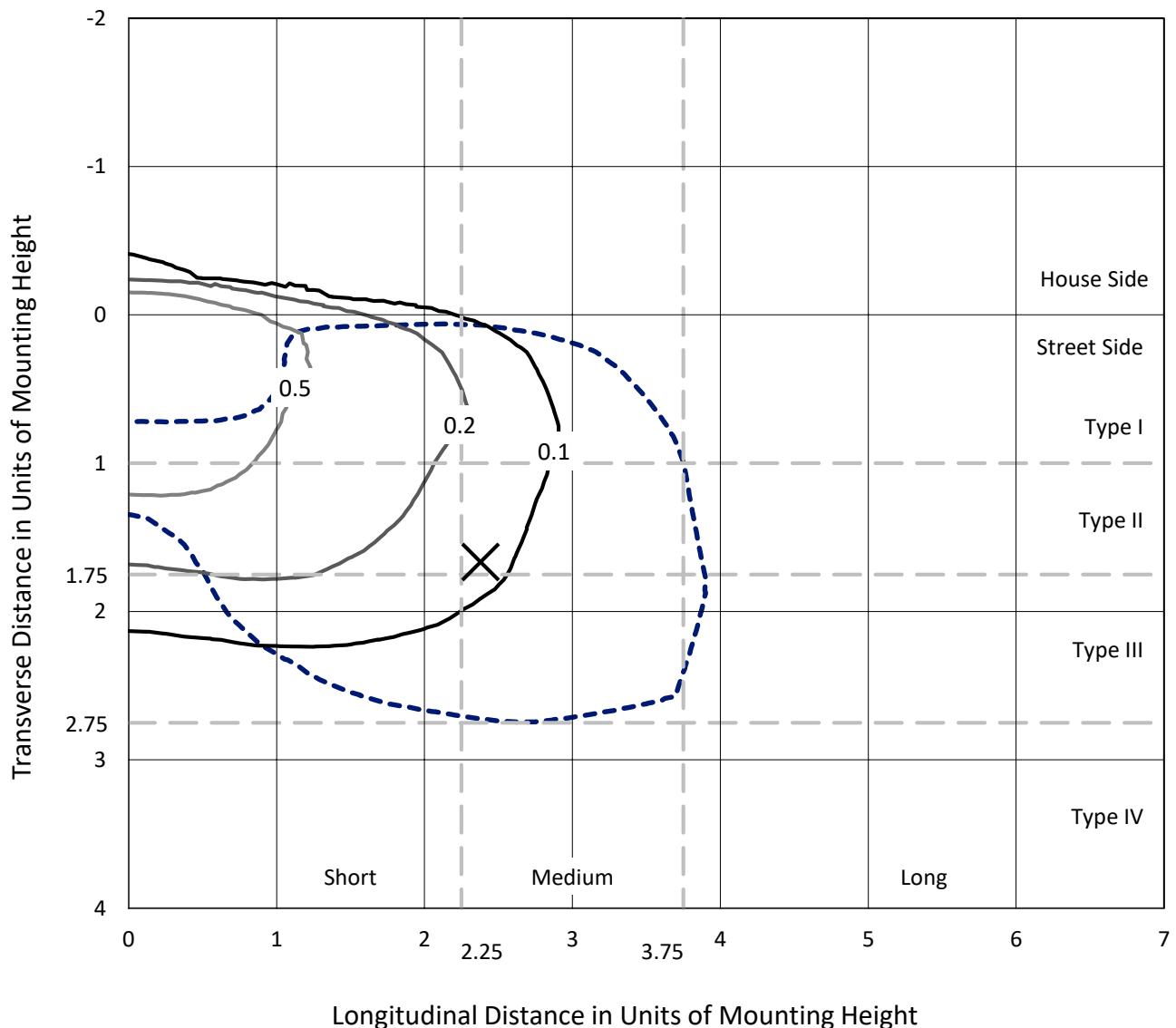
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

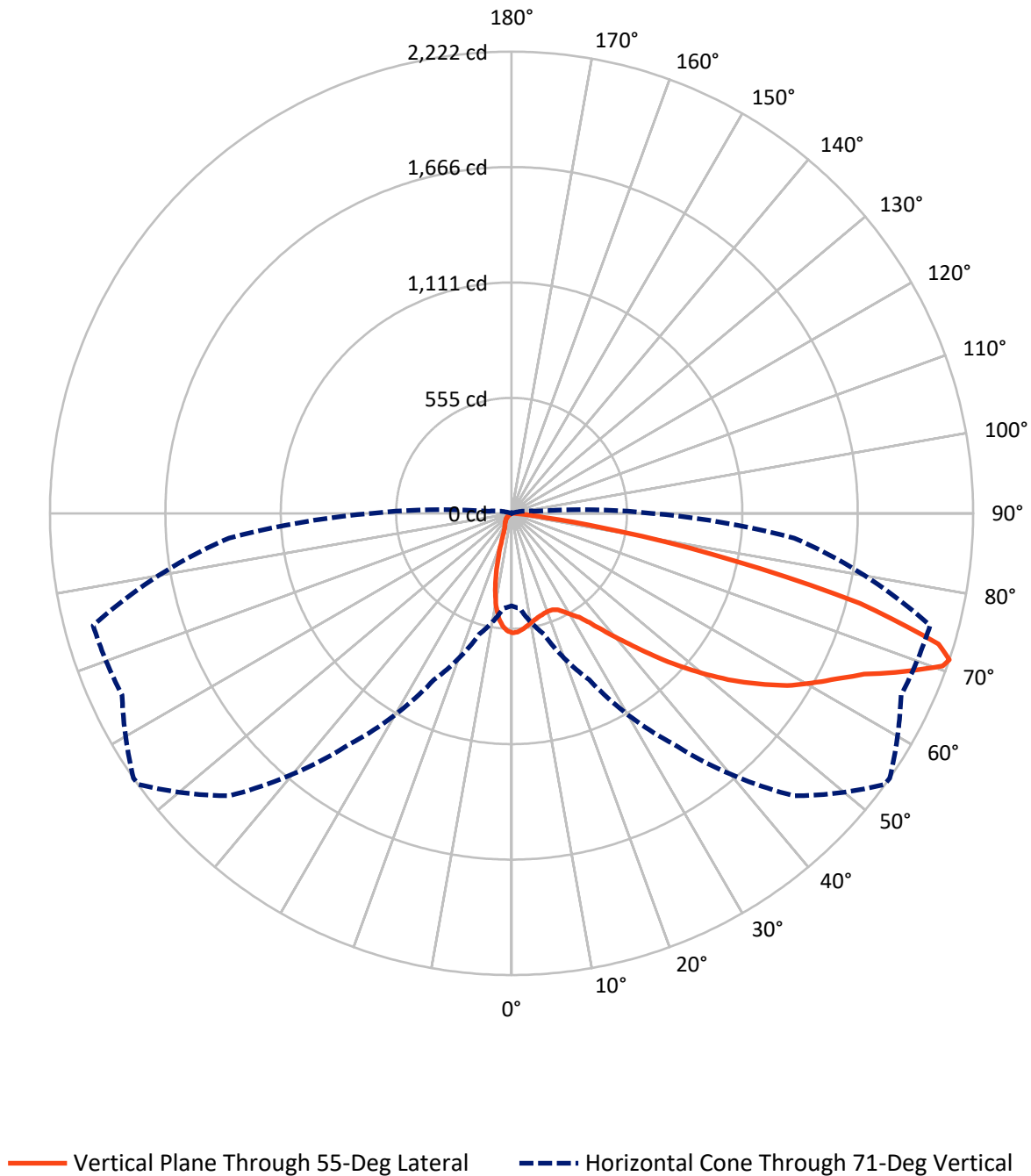
✕ Max cd
 - - - 1/2 Max cd



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	236.1	0.0	236.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	2745.9	0.0	2745.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	2982.0	0.0	2982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.6
10°-20°	110.7	3.7
20°-30°	177.9	6.0
30°-40°	302.3	10.1
40°-50°	469.1	15.7
50°-60°	630.7	21.2
60°-70°	771.6	25.9
70°-80°	451.1	15.1
80°-90°	19.5	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°	2982.0	100.0
0°-180°	2982.0	100.0

Coefficient of Utilization



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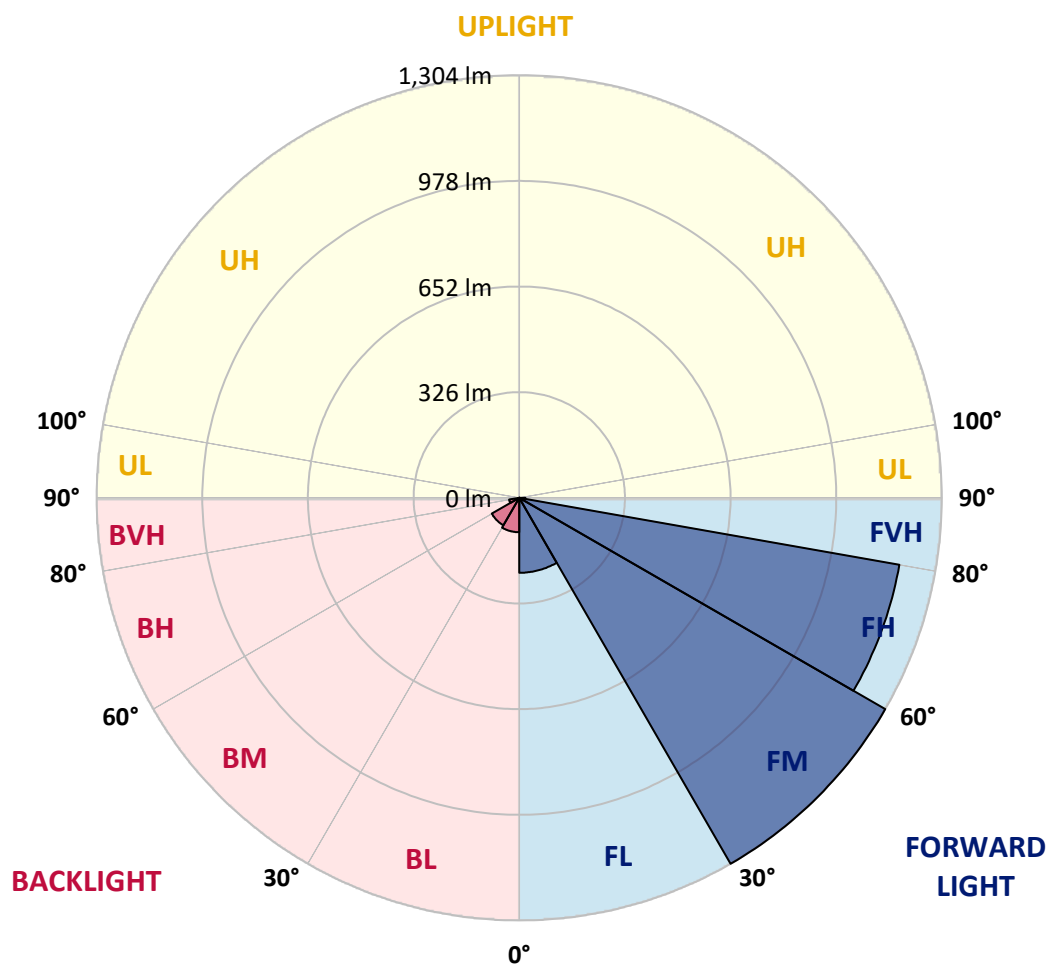
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.4	7.8			
FM	(30°-60°)	1304.2	43.7			
FH	(60°-80°)	1191.1	39.9			G1/1800
FVH	(80°-90°)	19.2	0.6			G1/100
BL	(0°-30°)	106.3	3.6	B0/110		
BM	(30°-60°)	97.9	3.3	B0/220		
BH	(60°-80°)	31.6	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°	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1
2.5°	558.2	558.9	561.3	562.4	564.9	569.2	571.3	571.5	575.0	576.3	577.4
5°	518.7	522.7	526.8	531.0	538.8	549.1	559.3	560.2	571.5	579.8	584.2
7.5°	484.7	488.3	493.1	500.0	511.0	527.2	544.2	546.2	567.5	586.3	596.2
10°	449.8	452.7	459.7	469.7	484.8	506.5	529.4	532.8	563.8	595.2	612.6
12.5°	412.4	414.1	422.6	437.0	459.3	486.9	517.0	521.4	561.6	605.4	631.9
15°	384.0	384.8	392.9	407.9	433.3	469.2	507.3	512.7	562.1	617.5	652.9
17.5°	376.8	377.2	381.5	391.8	414.3	453.4	499.7	506.3	563.7	629.5	674.0
20°	406.1	403.3	398.9	397.3	406.9	443.9	495.2	502.5	565.9	640.0	693.1
22.5°	486.6	478.3	459.9	435.4	420.6	444.5	496.4	503.7	572.7	653.0	715.0
25°	606.0	594.5	563.3	515.1	468.8	463.8	506.4	513.9	585.9	668.5	736.0
27.5°	741.9	730.5	692.4	623.6	544.6	502.0	529.4	536.4	605.6	682.3	752.1
30°	872.1	868.9	823.9	745.7	639.9	563.8	559.2	565.0	620.2	690.6	764.8
32.5°	982.4	977.3	941.2	865.1	749.0	638.2	594.1	595.8	631.2	701.4	781.4
35°	1084.7	1078.4	1046.7	974.8	861.0	728.9	647.9	645.4	655.2	722.9	805.5
37.5°	1174.0	1179.8	1144.6	1076.1	961.4	823.3	720.5	712.9	692.7	758.0	840.5
40°	1248.7	1248.7	1230.4	1173.3	1069.8	920.9	802.6	792.5	749.0	812.1	884.8
42.5°	1275.6	1281.4	1288.2	1256.0	1166.9	1022.4	894.0	883.6	828.4	888.8	940.8
45°	1277.2	1286.4	1321.3	1321.2	1254.6	1123.3	997.1	992.2	930.2	987.4	1010.1
47.5°	1254.6	1266.0	1323.6	1356.2	1324.1	1217.1	1109.9	1103.7	1049.8	1108.1	1082.7
50°	1219.7	1232.3	1299.2	1370.0	1371.4	1298.8	1228.6	1219.4	1181.4	1246.2	1157.7
52.5°	1157.1	1181.5	1277.4	1373.3	1402.4	1369.4	1341.7	1337.6	1328.7	1379.1	1217.4
55°	1023.4	1050.4	1222.6	1374.3	1431.2	1431.9	1447.6	1448.6	1466.7	1503.4	1261.8
57.5°	960.2	975.4	1127.0	1379.4	1473.9	1502.9	1555.5	1563.8	1591.8	1621.4	1312.6
60°	920.4	938.5	1079.9	1372.4	1541.0	1595.9	1655.5	1658.3	1688.3	1743.1	1381.3
62.5°	888.7	906.5	1050.2	1345.7	1616.4	1707.9	1753.3	1753.5	1776.0	1888.1	1459.3
65°	810.3	825.3	990.0	1315.5	1666.2	1818.6	1866.8	1865.1	1883.4	2041.0	1550.0
67.5°	697.1	708.6	867.3	1201.3	1647.5	1919.3	2038.2	2032.4	2010.2	2173.2	1585.6
70°	538.9	543.1	683.5	1001.2	1471.8	1958.0	2203.8	2200.9	2088.0	2149.5	1455.1
71°	445.5	459.1	602.4	883.6	1354.1	1922.2	2219.9	2221.6	2068.4	2084.9	1365.2
72.5°	258.7	270.3	436.6	678.6	1149.6	1773.1	2136.6	2149.2	1977.1	1896.4	1166.1
75°	55.4	59.3	161.9	328.5	632.4	1242.7	1686.4	1731.3	1611.5	1290.1	702.8
77.5°	38.6	41.6	69.4	149.0	209.0	614.1	1047.6	1098.2	962.7	484.8	224.9
80°	30.5	34.0	54.1	73.6	56.5	198.0	490.7	521.7	321.1	108.2	37.9
82.5°	17.0	20.2	42.2	39.8	21.7	37.6	137.4	155.3	64.3	21.8	9.0
85°	5.0	6.0	27.2	28.9	9.2	7.2	23.4	29.1	12.2	5.8	4.0
87.5°	0.0	0.0	13.1	11.1	2.7	1.1	2.1	2.4	2.4	2.4	2.7
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°	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1	575.1
2.5°	577.4	578.3	575.0	570.5	565.9	560.1	554.1	549.4	549.2	547.0	544.7
5°	584.5	583.9	574.7	560.6	544.0	526.8	510.3	491.7	485.5	477.9	475.3
7.5°	597.6	593.8	574.3	543.5	507.1	470.9	433.6	395.9	379.9	365.4	362.9
10°	614.1	607.0	571.7	517.8	451.0	384.3	327.9	276.8	254.3	237.0	236.2
12.5°	631.2	620.3	564.6	479.0	377.5	283.7	218.8	168.4	149.7	137.6	138.7
15°	649.1	632.9	549.4	426.6	293.8	192.5	134.4	104.8	97.3	94.3	95.1
17.5°	667.5	641.6	528.1	363.5	211.2	124.3	93.1	84.8	84.8	85.4	85.7
20°	683.4	646.3	496.8	292.8	143.1	90.5	81.4	80.2	80.9	81.9	82.1
22.5°	699.2	646.6	455.9	221.2	100.2	79.3	77.5	77.0	77.4	78.6	78.7
25°	712.1	643.4	404.8	157.3	79.9	74.7	73.9	73.6	73.9	75.4	75.4
27.5°	717.3	631.7	342.4	110.6	71.6	69.6	69.4	69.6	70.0	71.1	71.2
30°	717.8	611.4	274.4	80.1	64.9	62.8	63.3	64.3	63.9	63.6	63.9
32.5°	719.2	587.8	208.1	65.9	59.3	56.0	55.3	55.3	53.7	52.8	52.2
35°	723.6	560.1	150.9	59.2	53.6	49.7	47.1	44.2	41.1	39.5	39.1
37.5°	730.5	531.0	108.1	54.8	48.5	44.1	39.2	34.0	29.6	28.4	28.4
40°	743.3	501.0	79.9	51.3	44.5	39.0	31.7	24.9	20.9	20.2	20.2
42.5°	763.3	469.4	63.7	48.2	41.0	33.7	24.2	18.1	15.1	14.7	14.6
45°	784.2	434.6	55.7	45.3	37.2	27.7	17.9	13.4	11.6	11.2	11.2
47.5°	805.1	397.5	51.8	42.4	33.6	21.6	13.4	10.6	9.8	9.8	9.9
50°	822.8	358.8	49.0	39.4	28.9	16.3	10.6	9.0	8.7	9.2	9.4
52.5°	827.2	320.8	45.5	35.5	23.2	12.5	8.7	7.9	7.9	7.9	7.9
55°	824.5	291.4	41.0	30.7	17.1	9.9	7.5	7.0	6.8	6.8	6.8
57.5°	833.6	274.0	32.8	23.8	12.3	8.0	6.6	6.2	5.9	5.8	5.8
60°	852.0	262.6	23.4	17.1	9.2	6.7	5.6	5.2	4.8	4.6	4.6
62.5°	876.4	252.7	17.4	12.7	7.1	5.4	4.7	4.3	3.7	3.5	3.5
65°	895.1	235.0	13.3	9.5	5.4	4.3	3.6	3.5	2.7	2.4	2.3
67.5°	866.5	196.2	10.7	7.0	4.0	3.3	2.8	2.7	1.6	1.3	1.3
70°	743.1	136.6	8.6	5.1	2.9	2.7	2.3	1.7	1.2	1.1	1.1
71°	673.9	114.1	7.8	4.3	2.5	2.5	2.1	1.5	1.1	0.9	0.9
72.5°	559.8	81.0	6.6	3.3	2.3	2.7	2.3	1.3	1.1	0.9	0.8
75°	325.0	33.9	4.6	2.3	1.7	3.2	2.9	1.2	0.8	0.7	0.7
77.5°	97.7	12.5	2.5	1.5	1.3	2.8	3.3	1.1	0.4	0.1	0.1
80°	17.8	5.4	1.6	0.9	0.9	1.7	2.5	0.5	0.0	0.0	0.0
82.5°	6.3	2.7	0.9	0.5	0.4	0.8	1.2	0.0	0.0	0.0	0.0
85°	3.6	1.9	0.5	0.3	0.0	0.1	0.3	0.0	0.0	0.0	0.0
87.5°	2.4	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)