

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: P321425

Luminaire Tested: **GAN-SA1A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321425
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3130 lumens
Efficiency: N/A
Efficacy: 92.1 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

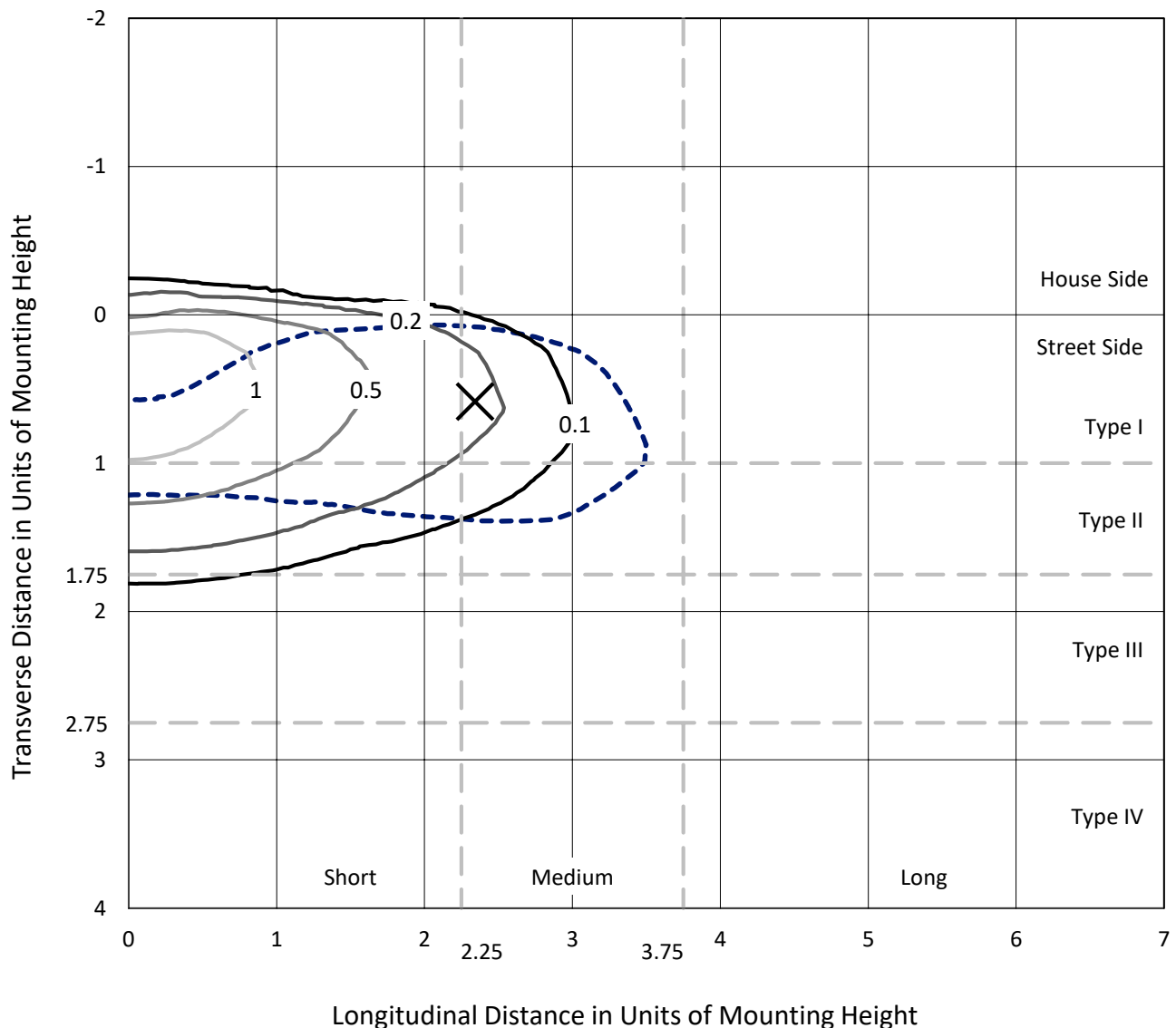
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321425
 CATALOG NUMBER: GAN-SA1A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

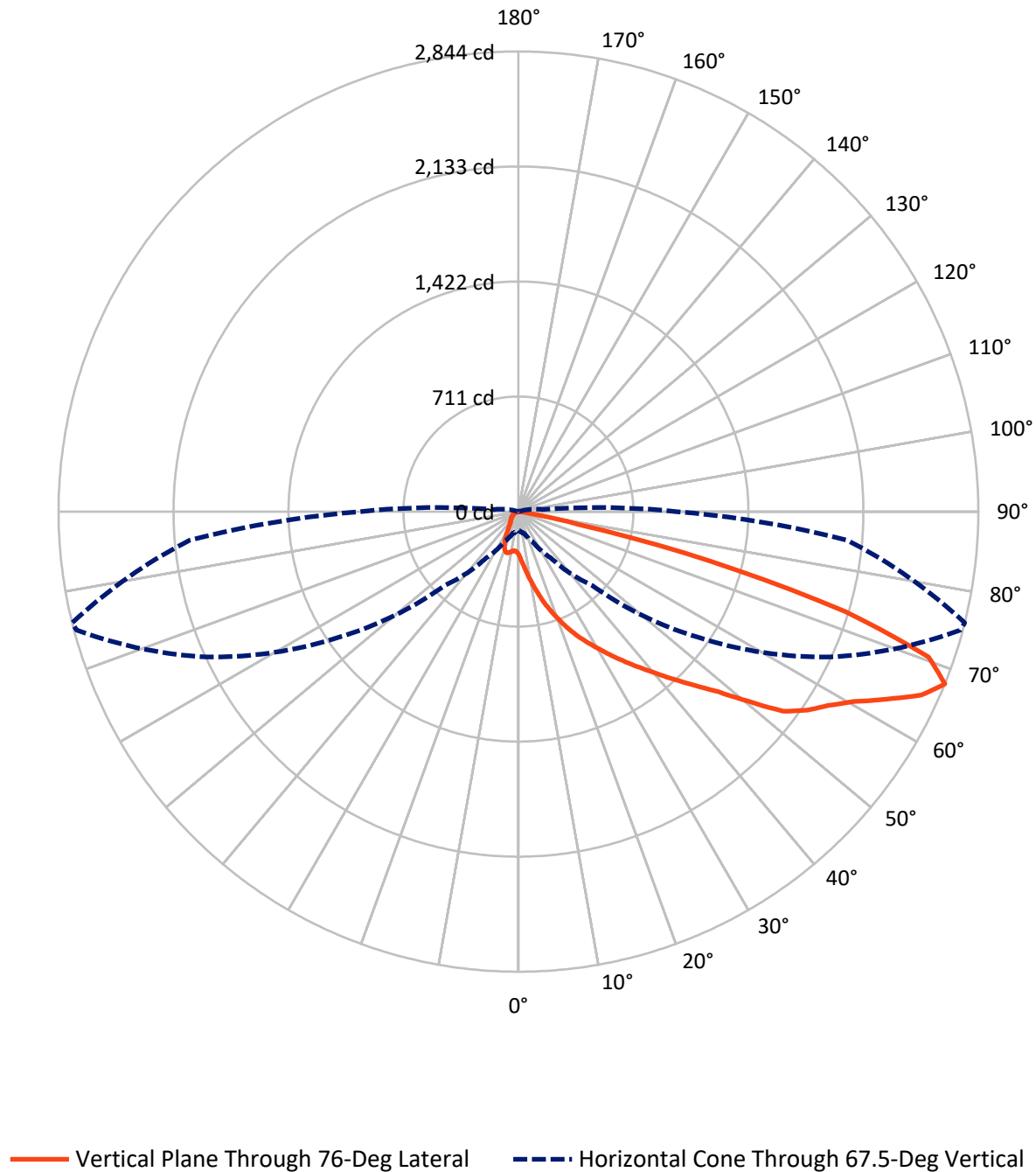
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P321425
CATALOG NUMBER: GAN-SA1A-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321425

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.4	0.0	155.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2974.6	0.0	2974.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3130.0	0.0	3130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.1
10°-20°	130.9	4.2
20°-30°	266.3	8.5
30°-40°	462.2	14.8
40°-50°	653.0	20.9
50°-60°	740.6	23.7
60°-70°	614.2	19.6
70°-80°	222.5	7.1
80°-90°	7.2	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°	3130.0	100.0
0°-180°	3130.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321425

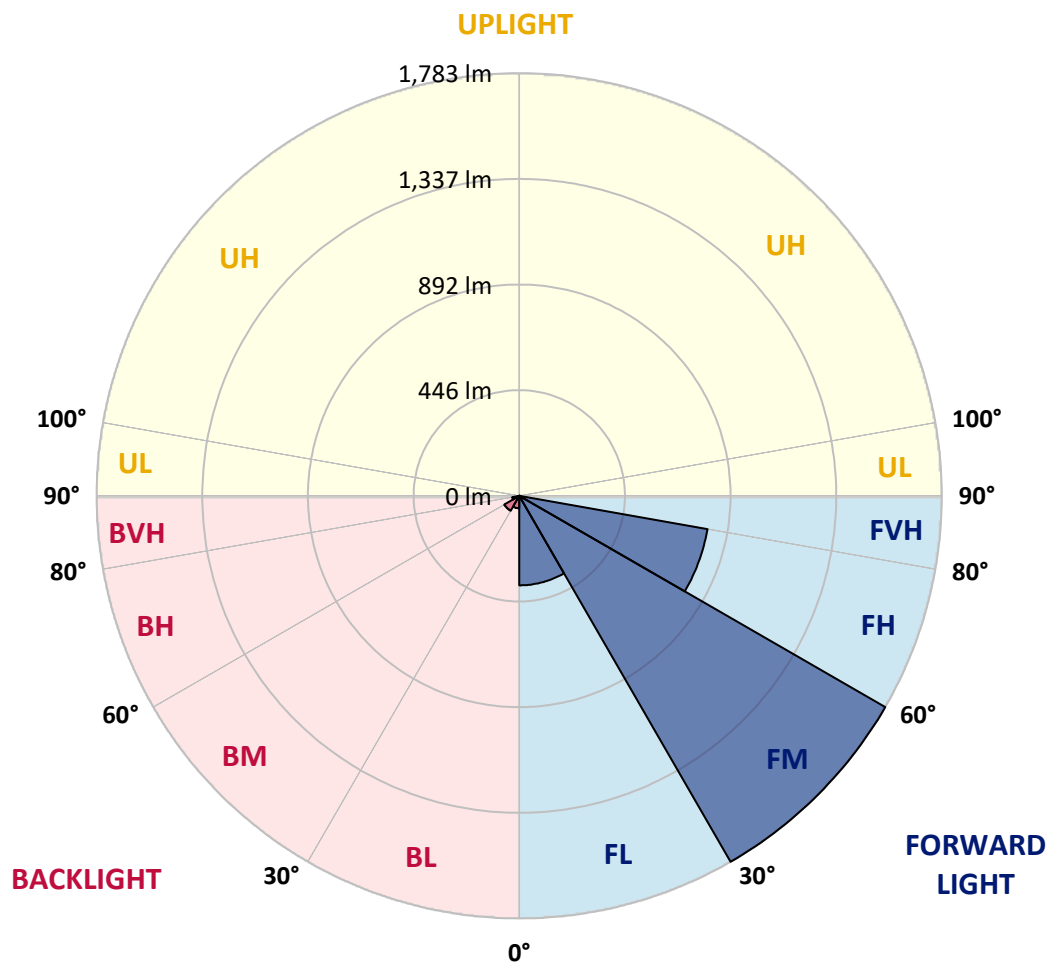
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.8	12.1			
FM	(30°-60°)	1783.1	57.0			
FH	(60°-80°)	806.7	25.8			G1/1800
FVH	(80°-90°)	7.0	0.2			G0/10
BL	(0°-30°)	52.4	1.7	B0/110		
BM	(30°-60°)	72.7	2.3	B0/220		
BH	(60°-80°)	30.0	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





REPORT NUMBER: P321425

CATALOG NUMBER: GAN-SA1A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5
2.5°	396.4	387.4	389.5	383.7	373.3	351.9	333.7	316.4	296.2	295.5	279.0
5°	534.5	526.9	526.0	514.3	495.4	459.0	423.6	383.3	338.3	335.0	299.8
7.5°	659.8	653.8	651.6	637.7	602.5	567.1	521.0	461.8	391.4	385.4	327.9
10°	756.1	753.2	753.8	743.9	713.7	680.8	620.3	544.7	451.6	442.3	361.7
12.5°	829.0	829.7	834.7	828.6	811.8	787.4	722.8	633.2	518.3	505.5	400.2
15°	882.7	886.1	895.2	902.7	901.5	880.3	821.1	723.0	589.0	574.9	443.1
17.5°	917.4	921.2	934.4	951.1	966.5	961.5	916.0	809.7	660.6	644.3	489.1
20°	947.8	952.3	966.5	988.5	1017.2	1023.4	993.5	893.8	732.1	712.2	536.5
22.5°	1013.8	1013.6	1022.3	1035.2	1062.5	1078.4	1059.5	971.8	802.7	782.0	584.9
25°	1133.1	1128.6	1125.6	1115.4	1121.4	1131.3	1120.8	1044.8	873.8	852.8	634.0
27.5°	1274.9	1277.7	1253.2	1225.9	1204.8	1194.7	1177.4	1112.4	942.1	919.0	682.0
30°	1424.5	1425.4	1396.6	1361.7	1315.2	1276.7	1246.8	1177.0	1012.3	987.2	728.7
32.5°	1559.5	1554.1	1525.6	1478.2	1419.5	1376.1	1314.0	1249.1	1086.6	1062.3	780.5
35°	1666.5	1660.2	1625.5	1582.3	1521.4	1477.7	1403.0	1321.1	1164.8	1141.1	832.5
37.5°	1744.6	1737.2	1701.6	1657.1	1604.6	1579.2	1506.3	1399.4	1250.1	1224.6	887.2
40°	1771.8	1765.3	1743.0	1710.5	1668.2	1662.5	1615.9	1489.5	1342.9	1315.8	949.2
42.5°	1755.6	1749.3	1741.3	1730.4	1712.8	1718.3	1719.3	1592.3	1446.1	1419.3	1017.6
45°	1691.4	1685.8	1694.0	1710.1	1731.9	1759.0	1813.6	1702.7	1561.3	1532.7	1096.8
47.5°	1596.9	1592.8	1615.6	1655.6	1719.4	1794.3	1899.9	1818.7	1690.6	1664.1	1195.5
50°	1462.5	1461.8	1507.4	1580.5	1678.5	1811.3	1989.0	1950.6	1870.3	1842.4	1332.8
52.5°	1253.2	1254.6	1344.2	1461.2	1606.8	1799.8	2046.4	2120.1	2079.3	2050.3	1451.7
55°	1054.0	1062.2	1125.7	1294.4	1496.8	1757.0	2066.1	2199.3	2194.6	2167.2	1517.8
57.5°	858.8	873.8	934.9	1092.5	1336.2	1658.4	2055.3	2233.6	2280.5	2259.5	1605.0
60°	647.3	654.2	724.7	872.0	1130.1	1478.4	1976.7	2252.2	2397.9	2383.3	1731.6
62.5°	411.8	429.0	491.5	633.6	879.9	1228.6	1844.2	2251.9	2544.7	2552.7	1894.9
65°	217.0	237.0	270.2	392.6	604.7	949.5	1644.9	2230.8	2725.0	2736.1	2022.6
67.5°	117.0	122.7	140.3	203.8	350.7	643.2	1352.1	2126.6	2829.3	2844.0	2040.5
70°	85.6	88.7	95.3	112.7	176.5	373.6	986.6	1890.3	2694.8	2689.3	1812.9
72.5°	65.7	70.6	75.6	82.6	101.5	199.4	614.3	1480.2	2150.2	2114.0	1355.1
75°	51.8	52.7	59.7	66.0	76.1	113.6	272.8	862.1	1312.4	1226.6	702.7
77.5°	41.4	42.0	46.1	51.6	61.2	74.6	84.5	339.2	419.0	373.9	152.5
80°	24.5	25.9	34.3	39.8	50.7	47.0	30.9	73.6	65.4	59.2	25.6
82.5°	13.7	14.8	19.3	31.4	35.4	22.5	15.4	19.9	15.4	14.9	7.3
85°	0.0	0.7	12.5	19.5	14.4	4.9	6.4	6.6	4.5	4.3	2.9
87.5°	0.0	0.0	3.8	3.7	0.5	0.8	1.5	2.2	1.8	1.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321425

CATALOG NUMBER: GAN-SA1A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5
2.5°	270.7	263.3	249.3	235.6	224.1	214.6	206.1	202.7	200.0	199.5	197.4
5°	282.8	267.8	241.1	219.2	204.5	194.1	185.1	179.7	175.4	173.8	172.3
7.5°	301.0	278.4	240.0	214.8	197.2	179.7	163.2	145.4	134.3	130.0	127.5
10°	323.3	292.4	244.1	213.5	182.8	145.8	118.5	95.9	86.7	83.7	82.8
12.5°	349.2	309.8	251.3	205.9	152.1	103.5	81.7	74.1	72.0	71.0	71.0
15°	378.9	328.9	256.3	183.6	112.5	78.3	70.8	67.2	65.0	63.8	63.9
17.5°	409.4	347.5	253.9	151.4	83.0	69.7	64.0	60.2	57.2	56.0	55.7
20°	440.1	364.8	240.1	112.7	70.2	63.2	56.9	52.7	49.6	48.4	48.1
22.5°	471.9	379.5	216.0	82.7	63.1	56.1	49.9	45.7	42.8	41.7	41.1
25°	502.9	391.4	182.3	66.9	56.4	49.4	43.5	39.5	36.9	35.8	35.7
27.5°	531.9	399.0	143.2	59.1	50.5	43.3	38.0	34.4	32.2	31.4	31.3
30°	557.9	399.6	105.9	53.3	45.3	38.1	33.2	30.0	28.1	27.3	27.0
32.5°	584.2	393.9	77.1	48.1	40.5	33.6	28.8	26.3	25.0	24.3	24.3
35°	609.1	380.6	60.1	43.6	35.8	29.2	25.4	23.6	22.8	22.1	22.1
37.5°	633.3	361.5	51.0	39.6	31.4	25.5	22.4	21.3	20.6	19.9	19.9
40°	658.0	337.5	46.4	35.9	27.8	22.6	19.9	18.9	18.2	17.7	17.6
42.5°	688.3	309.8	43.3	32.5	24.7	20.0	17.6	16.5	15.9	15.4	15.1
45°	723.4	285.9	40.9	29.1	22.1	17.8	15.2	14.1	13.3	12.6	12.5
47.5°	774.1	268.7	37.6	25.4	19.6	15.5	13.2	11.9	10.7	10.0	9.9
50°	838.6	254.4	33.3	22.1	17.1	13.2	11.0	9.5	8.4	7.7	7.7
52.5°	870.7	235.8	29.5	19.2	14.4	11.1	8.9	7.1	6.6	5.9	5.9
55°	883.6	221.5	25.6	16.3	11.9	9.2	7.0	5.5	5.1	4.7	4.5
57.5°	919.8	217.4	22.4	13.9	9.9	7.3	5.3	4.1	3.8	3.3	3.3
60°	978.1	219.4	19.3	11.8	8.0	5.6	4.0	3.2	2.9	2.3	2.3
62.5°	1041.1	216.8	16.3	10.1	6.2	4.1	2.7	2.3	2.3	1.4	1.2
65°	1053.1	193.1	14.0	8.4	4.8	3.0	1.8	1.5	2.1	0.3	0.0
67.5°	977.4	149.8	12.1	6.4	3.6	2.3	1.4	0.7	1.8	0.0	0.0
70°	781.6	95.2	9.7	4.7	2.7	1.9	1.1	0.3	1.4	0.0	0.0
72.5°	552.7	55.3	7.7	3.3	2.3	1.5	0.8	0.0	0.8	0.0	0.0
75°	279.5	29.5	4.8	2.5	1.8	1.1	0.5	0.0	0.1	0.0	0.0
77.5°	60.5	13.7	3.0	1.8	1.2	0.7	0.3	0.0	0.0	0.0	0.0
80°	13.2	6.0	1.9	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	3.2	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)