

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: P321415

Luminaire Tested: **GAN-SA1D-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321415
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-SA1D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 4820 lumens
Efficiency: N/A
Efficacy: 71.9 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

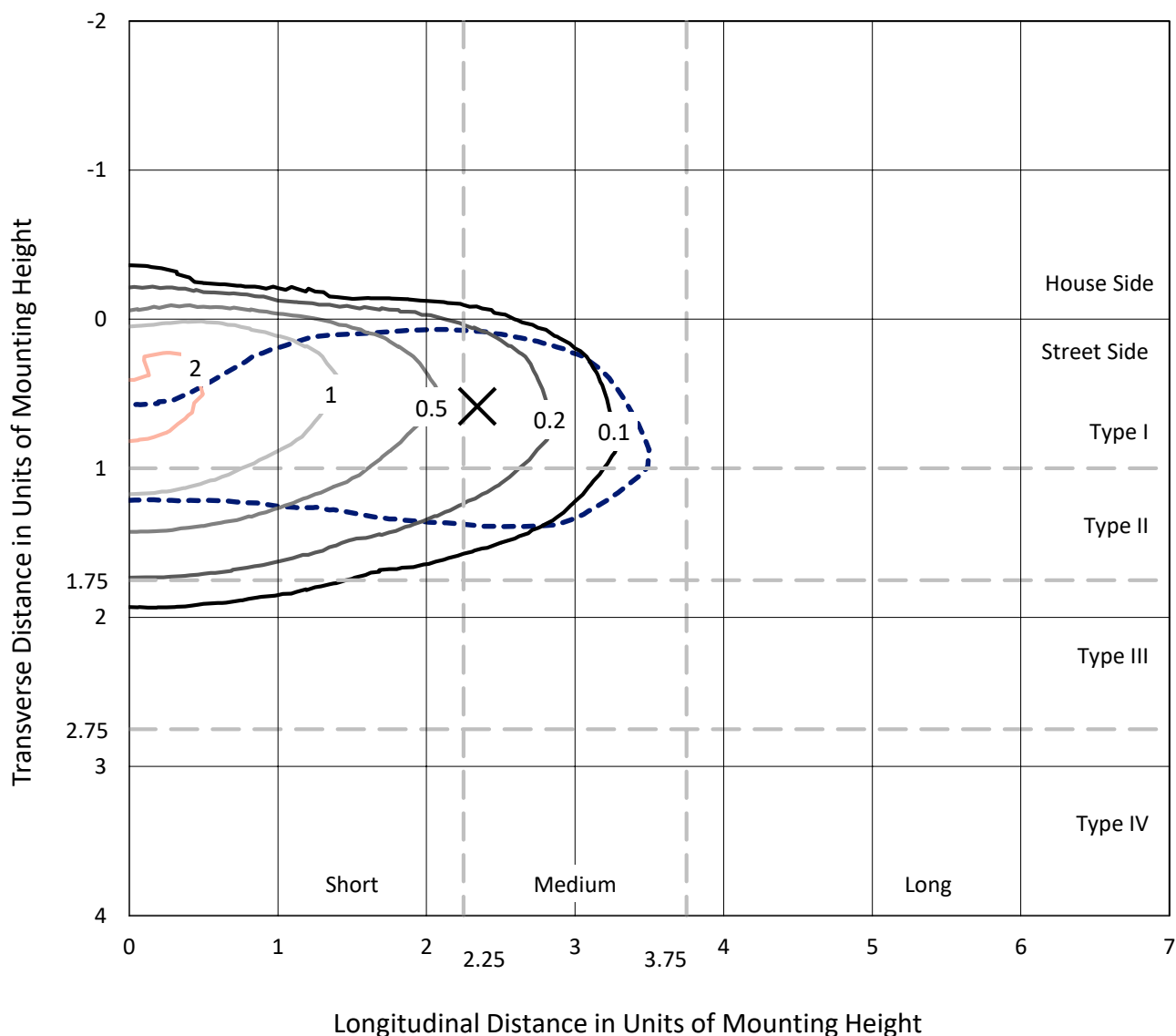
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

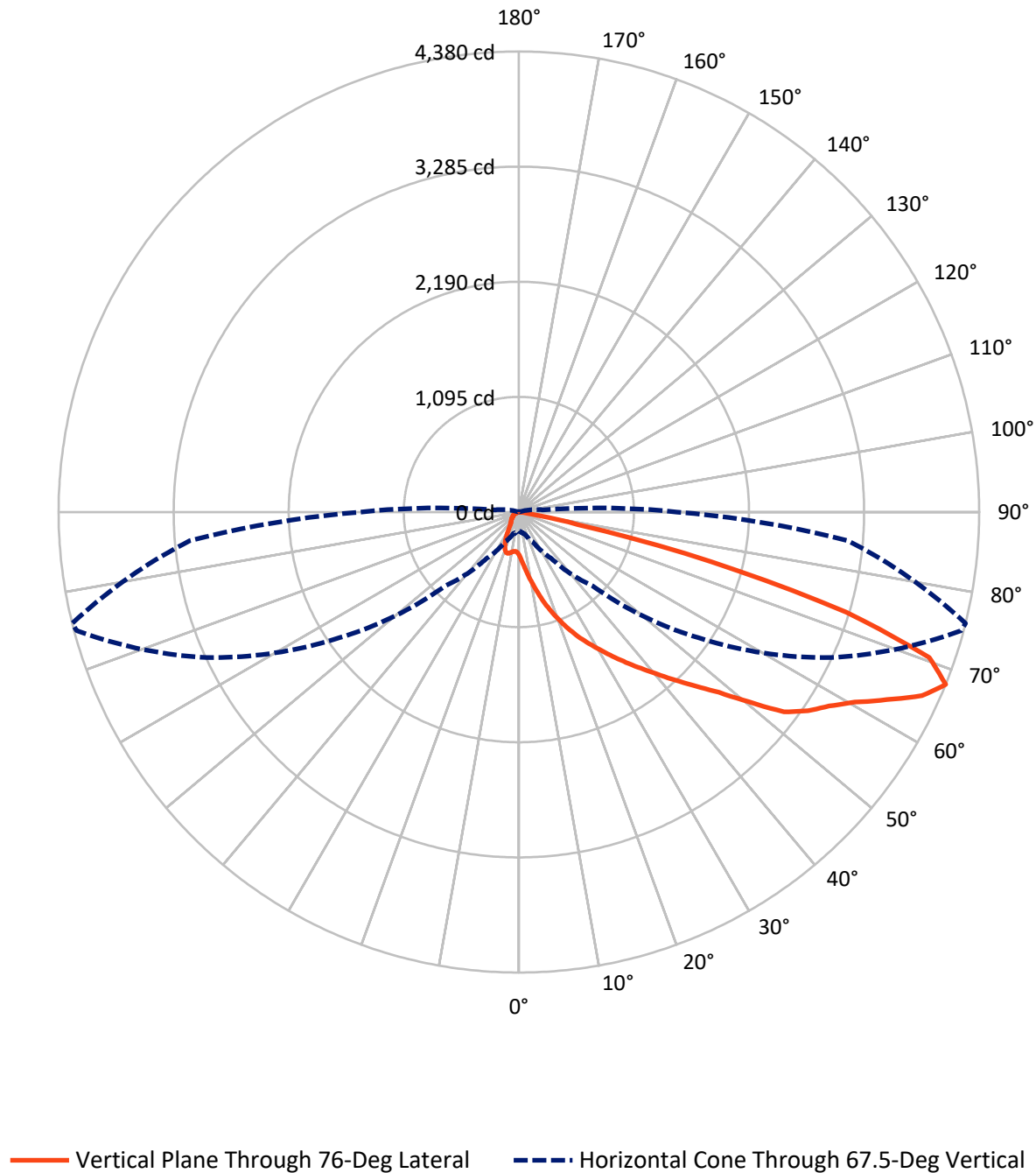
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	239.3	0.0	239.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4580.7	0.0	4580.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	4820.0	0.0	4820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.1
10°-20°	201.5	4.2
20°-30°	410.1	8.5
30°-40°	711.8	14.8
40°-50°	1005.7	20.9
50°-60°	1140.5	23.7
60°-70°	945.9	19.6
70°-80°	342.6	7.1
80°-90°	11.1	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°	4820.0	100.0
0°-180°	4820.0	100.0

Coefficient of Utilization



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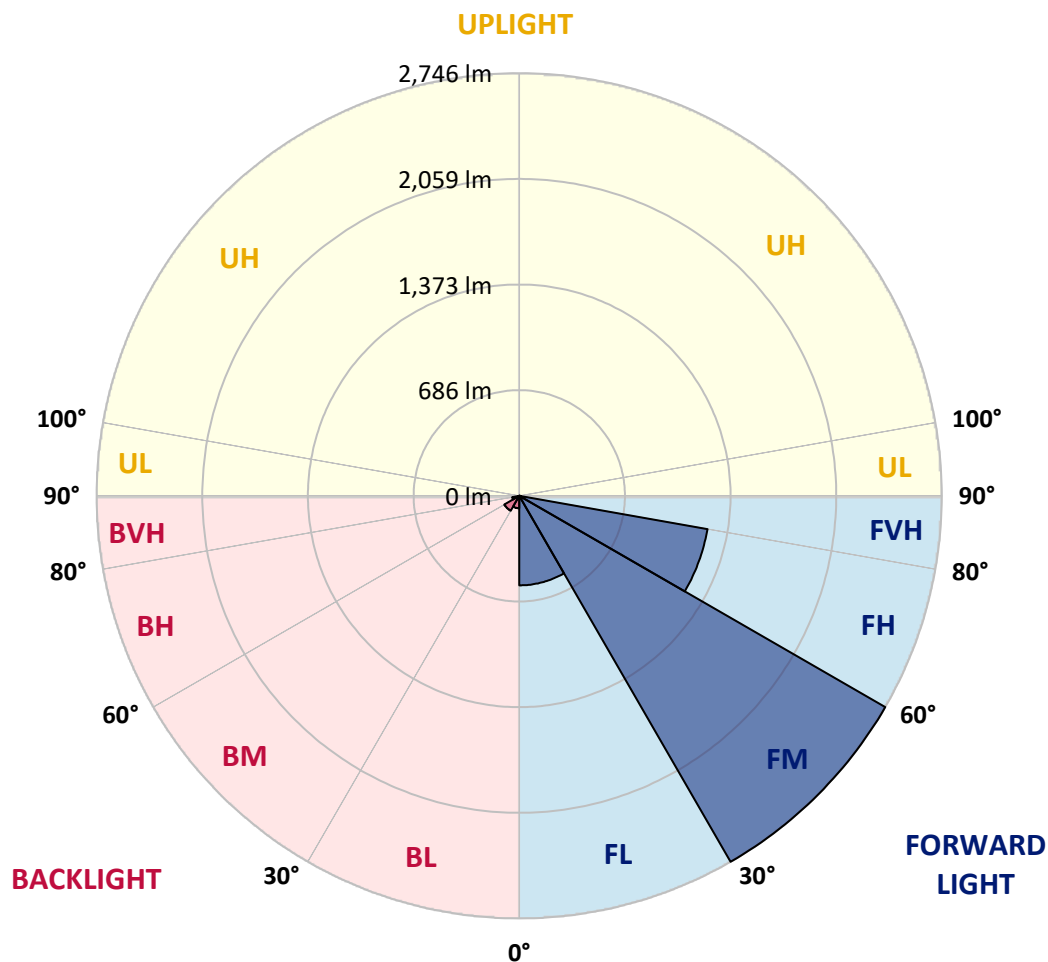
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.8	12.1			
FM	(30°-60°)	2745.9	57.0			
FH	(60°-80°)	1242.3	25.8			G1/1800
FVH	(80°-90°)	10.8	0.2			G1/100
BL	(0°-30°)	80.7	1.7	B0/110		
BM	(30°-60°)	112.0	2.3	B0/220		
BH	(60°-80°)	46.3	1.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9
2.5°	610.4	596.6	599.8	590.9	574.9	541.9	513.8	487.2	456.2	455.1	429.6
5°	823.0	811.4	809.9	792.0	762.8	706.9	652.4	590.3	521.0	516.0	461.7
7.5°	1016.1	1006.8	1003.4	982.1	927.8	873.3	802.3	711.1	602.8	593.5	505.0
10°	1164.3	1159.9	1160.7	1145.5	1099.1	1048.4	955.2	838.9	695.5	681.1	556.9
12.5°	1276.7	1277.7	1285.3	1276.0	1250.1	1212.5	1113.0	975.1	798.1	778.5	616.3
15°	1359.3	1364.5	1378.5	1390.1	1388.2	1355.7	1264.4	1113.4	907.1	885.3	682.4
17.5°	1412.7	1418.6	1438.9	1464.6	1488.3	1480.7	1410.6	1246.9	1017.3	992.2	753.1
20°	1459.6	1466.5	1488.3	1522.3	1566.4	1575.9	1529.9	1376.4	1127.4	1096.7	826.2
22.5°	1561.2	1561.0	1574.3	1594.1	1636.1	1660.6	1631.5	1496.5	1236.1	1204.2	900.8
25°	1744.9	1737.9	1733.3	1717.7	1727.0	1742.2	1725.9	1608.9	1345.5	1313.2	976.4
27.5°	1963.3	1967.5	1929.9	1887.9	1855.4	1839.7	1813.1	1713.0	1450.7	1415.2	1050.3
30°	2193.7	2195.0	2150.6	2097.0	2025.4	1966.0	1920.0	1812.5	1558.8	1520.2	1122.1
32.5°	2401.5	2393.3	2349.3	2276.3	2185.9	2119.1	2023.5	1923.6	1673.3	1635.9	1201.9
35°	2566.2	2556.5	2503.1	2436.6	2342.8	2275.6	2160.5	2034.5	1793.7	1757.2	1282.0
37.5°	2686.6	2675.2	2620.3	2551.9	2471.0	2431.9	2319.6	2155.0	1925.1	1885.8	1366.2
40°	2728.4	2718.5	2684.1	2634.0	2569.0	2560.1	2488.3	2293.8	2068.0	2026.2	1461.7
42.5°	2703.5	2693.8	2681.6	2664.7	2637.6	2646.1	2647.6	2452.0	2226.9	2185.7	1567.1
45°	2604.7	2596.0	2608.7	2633.4	2667.0	2708.8	2792.9	2622.0	2404.3	2360.3	1688.9
47.5°	2459.2	2452.8	2487.9	2549.6	2647.8	2763.1	2925.7	2800.7	2603.4	2562.7	1841.0
50°	2252.2	2251.1	2321.3	2433.8	2584.8	2789.3	3063.0	3003.8	2880.1	2837.2	2052.4
52.5°	1929.9	1932.0	2069.9	2250.1	2474.4	2771.5	3151.3	3264.9	3201.9	3157.4	2235.5
55°	1623.0	1635.7	1733.5	1993.3	2305.0	2705.6	3181.7	3386.7	3379.6	3337.3	2337.3
57.5°	1322.5	1345.5	1439.7	1682.4	2057.7	2553.8	3165.0	3439.5	3511.8	3479.5	2471.6
60°	996.8	1007.4	1116.0	1342.8	1740.3	2276.7	3044.0	3468.3	3692.6	3670.2	2666.6
62.5°	634.2	660.6	756.9	975.7	1355.0	1891.9	2840.0	3467.8	3918.7	3931.0	2918.1
65°	334.1	364.9	416.1	604.7	931.2	1462.1	2533.1	3435.3	4196.3	4213.4	3114.7
67.5°	180.2	189.0	216.1	313.8	540.0	990.5	2082.2	3274.8	4357.0	4379.6	3142.2
70°	131.8	136.6	146.8	173.6	271.8	575.3	1519.3	2910.9	4149.8	4141.3	2791.8
72.5°	101.2	108.8	116.4	127.1	156.3	307.1	945.9	2279.4	3311.1	3255.4	2086.8
75°	79.8	81.1	91.9	101.6	117.2	174.9	420.1	1327.6	2020.9	1888.9	1082.2
77.5°	63.8	64.6	71.0	79.4	94.2	114.9	130.1	522.3	645.2	575.7	234.9
80°	37.8	39.9	52.8	61.2	78.1	72.4	47.5	113.4	100.7	91.2	39.5
82.5°	21.1	22.8	29.8	48.4	54.5	34.6	23.7	30.6	23.7	23.0	11.2
85°	0.0	1.1	19.2	30.0	22.2	7.6	9.9	10.1	7.0	6.5	4.4
87.5°	0.0	0.0	5.9	5.7	0.8	1.3	2.3	3.4	2.7	2.7	2.3
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°	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9
2.5°	416.9	405.5	384.0	362.8	345.1	330.5	317.4	312.1	307.9	307.3	303.9
5°	435.5	412.5	371.3	337.5	314.9	298.8	285.1	276.7	270.1	267.6	265.3
7.5°	463.6	428.7	369.6	330.7	303.7	276.7	251.3	223.9	206.8	200.2	196.4
10°	497.8	450.3	375.9	328.8	281.5	224.5	182.5	147.6	133.5	128.8	127.6
12.5°	537.7	477.1	386.9	317.0	234.2	159.5	125.9	114.0	110.9	109.4	109.4
15°	583.5	506.4	394.7	282.8	173.2	120.6	109.0	103.5	100.1	98.2	98.4
17.5°	630.4	535.2	390.9	233.2	127.8	107.3	98.6	92.7	88.1	86.2	85.7
20°	677.7	561.8	369.8	173.6	108.1	97.4	87.6	81.1	76.5	74.6	74.1
22.5°	726.7	584.4	332.6	127.4	97.2	86.4	76.9	70.3	65.9	64.2	63.4
25°	774.5	602.8	280.7	103.1	86.8	76.0	66.9	60.8	56.8	55.1	54.9
27.5°	819.0	614.4	220.5	91.0	77.7	66.7	58.5	53.0	49.6	48.4	48.2
30°	859.1	615.4	163.0	82.2	69.7	58.7	51.1	46.3	43.3	42.0	41.6
32.5°	899.7	606.6	118.7	74.1	62.3	51.7	44.4	40.5	38.4	37.4	37.4
35°	937.9	586.1	92.5	67.2	55.1	45.0	39.1	36.3	35.1	34.0	34.0
37.5°	975.3	556.7	78.6	61.0	48.4	39.3	34.4	32.7	31.7	30.6	30.6
40°	1013.3	519.8	71.4	55.3	42.9	34.8	30.6	29.1	28.1	27.2	27.0
42.5°	1060.0	477.1	66.7	50.1	38.0	30.8	27.0	25.3	24.5	23.7	23.2
45°	1114.1	440.3	62.9	44.8	34.0	27.5	23.4	21.8	20.5	19.4	19.2
47.5°	1192.0	413.7	57.9	39.1	30.2	23.9	20.3	18.4	16.5	15.4	15.2
50°	1291.5	391.8	51.3	34.0	26.4	20.3	16.9	14.6	12.9	11.8	11.8
52.5°	1340.9	363.0	45.4	29.6	22.2	17.1	13.7	11.0	10.1	9.1	9.1
55°	1360.7	341.1	39.5	25.1	18.4	14.2	10.8	8.4	7.8	7.2	7.0
57.5°	1416.5	334.7	34.4	21.3	15.2	11.2	8.2	6.3	5.9	5.1	5.1
60°	1506.3	337.9	29.8	18.2	12.2	8.7	6.1	4.9	4.4	3.6	3.6
62.5°	1603.2	333.9	25.1	15.6	9.5	6.3	4.2	3.6	3.6	2.1	1.9
65°	1621.8	297.4	21.5	12.9	7.4	4.6	2.7	2.3	3.2	0.4	0.0
67.5°	1505.2	230.6	18.6	9.9	5.5	3.6	2.1	1.1	2.7	0.0	0.0
70°	1203.6	146.6	15.0	7.2	4.2	3.0	1.7	0.4	2.1	0.0	0.0
72.5°	851.1	85.1	11.8	5.1	3.6	2.3	1.3	0.0	1.3	0.0	0.0
75°	430.4	45.4	7.4	3.8	2.7	1.7	0.8	0.0	0.2	0.0	0.0
77.5°	93.1	21.1	4.6	2.7	1.9	1.1	0.4	0.0	0.0	0.0	0.0
80°	20.3	9.3	3.0	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	4.9	1.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.8	0.2	0.2	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)