

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: P321826

Luminaire Tested: **GAN-SA2A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5673 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

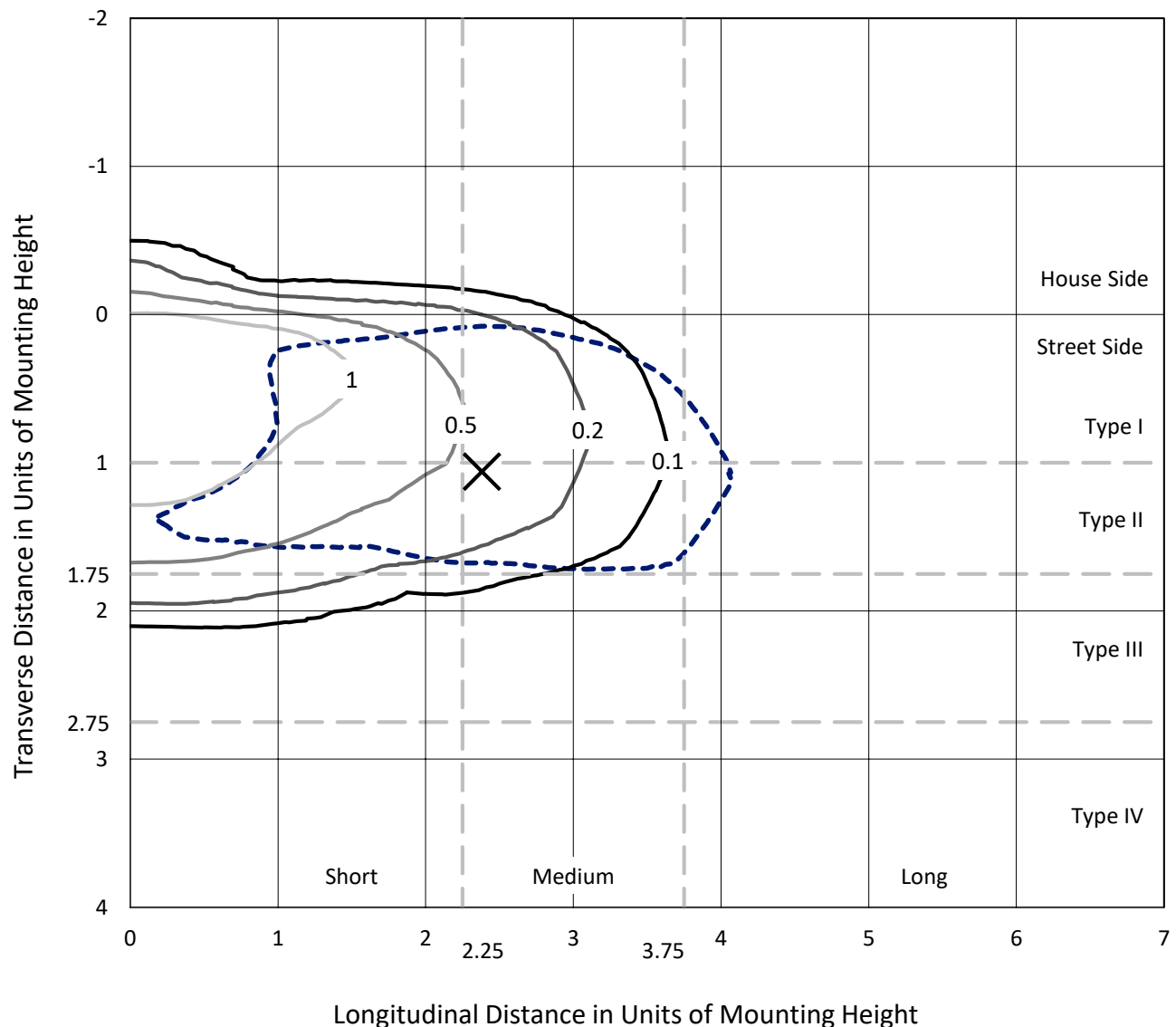


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Iso-Footcandle Lines of Horizontal Illumination

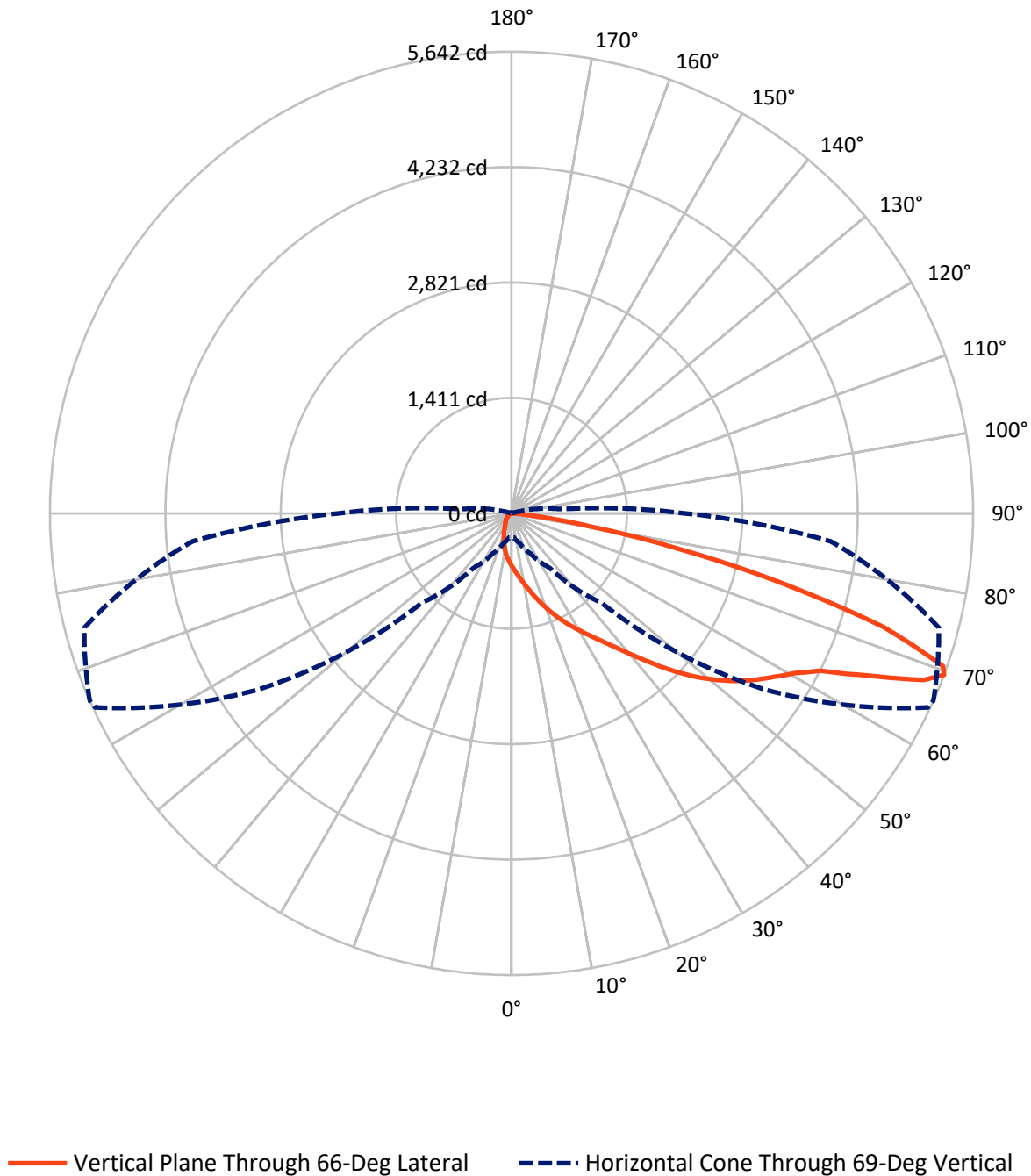
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	340.3	0.0	340.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5332.7	0.0	5332.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	5673.0	0.0	5673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.1
10°-20°	185.7	3.3
20°-30°	323.4	5.7
30°-40°	567.5	10.0
40°-50°	949.8	16.7
50°-60°	1396.2	24.6
60°-70°	1433.5	25.3
70°-80°	707.7	12.5
80°-90°	46.8	0.8
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°	5673.0	100.0
0°-180°	5673.0	100.0

Coefficient of Utilization



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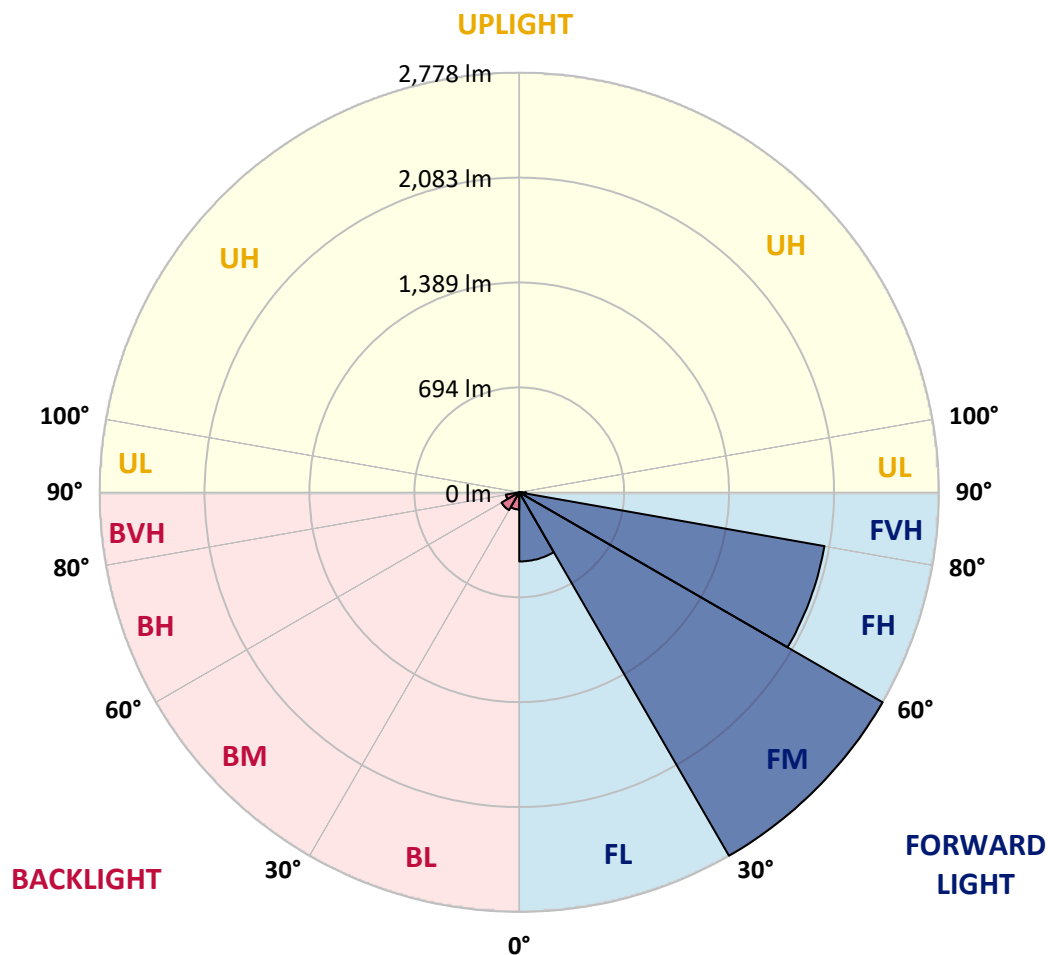
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.8	8.1			
FM	(30°-60°)	2777.8	49.0			
FH	(60°-80°)	2051.5	36.2			G2/5000
FVH	(80°-90°)	45.7	0.8			G1/100
BL	(0°-30°)	113.8	2.0	B1/500		
BM	(30°-60°)	135.7	2.4	B0/220		
BH	(60°-80°)	89.7	1.6	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6
2.5°	759.9	756.6	755.3	749.3	739.1	731.3	716.2	698.7	695.5	678.5	657.7
5°	858.5	855.8	853.9	845.5	835.0	815.4	787.9	755.3	749.1	716.7	675.2
7.5°	927.2	932.0	932.0	926.6	913.4	898.6	864.9	820.5	812.7	763.1	698.7
10°	967.3	973.3	977.8	982.4	980.5	974.6	942.8	892.7	883.3	817.5	725.9
12.5°	971.1	977.0	990.0	1009.1	1027.7	1041.2	1021.2	972.7	961.9	880.6	758.2
15°	950.1	956.3	976.2	1013.4	1058.4	1097.7	1104.2	1061.4	1050.3	955.7	798.7
17.5°	913.4	917.5	946.0	997.5	1068.1	1140.3	1179.4	1156.5	1146.2	1041.7	843.7
20°	886.2	889.2	914.2	969.5	1062.2	1167.0	1250.5	1257.5	1246.8	1133.9	892.4
22.5°	932.8	938.2	939.0	965.2	1046.0	1180.2	1313.0	1357.0	1348.9	1231.7	940.4
25°	1060.3	1066.5	1046.0	1029.8	1059.8	1186.1	1366.7	1458.8	1452.3	1337.0	988.6
27.5°	1228.7	1235.2	1208.8	1160.5	1131.7	1208.5	1414.4	1562.3	1562.0	1448.6	1040.6
30°	1394.1	1400.6	1373.7	1325.4	1259.1	1271.8	1455.6	1670.6	1672.2	1563.6	1095.9
32.5°	1567.7	1575.8	1548.0	1486.0	1416.8	1381.2	1513.5	1779.5	1788.6	1697.0	1158.1
35°	1764.9	1766.0	1726.9	1662.0	1582.2	1527.5	1606.5	1901.5	1923.3	1862.2	1237.1
37.5°	1958.4	1966.2	1934.1	1831.7	1758.4	1696.5	1744.7	2054.0	2085.0	2064.0	1340.3
40°	2101.7	2118.2	2113.6	2003.1	1933.6	1889.4	1916.3	2235.4	2274.7	2299.0	1470.4
42.5°	2191.7	2204.1	2225.1	2158.6	2095.5	2102.8	2119.0	2446.6	2495.1	2566.8	1619.9
45°	2294.9	2300.8	2318.4	2289.0	2246.4	2319.7	2334.0	2684.5	2735.5	2854.8	1785.9
47.5°	2421.0	2435.0	2439.9	2412.9	2393.5	2511.6	2541.2	2900.9	2972.3	3163.4	1961.6
50°	2581.6	2585.4	2593.7	2576.2	2556.8	2676.5	2727.1	3128.1	3193.0	3473.0	2134.9
52.5°	2738.7	2752.2	2781.3	2770.2	2762.4	2816.8	2892.8	3332.8	3405.3	3731.1	2307.9
55°	2784.0	2795.6	2896.1	2964.8	3028.4	2989.8	3051.3	3516.3	3594.8	3961.7	2474.4
57.5°	2603.2	2626.6	2800.7	2979.6	3243.4	3258.7	3269.0	3704.7	3775.0	4138.5	2647.6
60°	2146.2	2150.8	2436.4	2743.3	3207.8	3493.4	3586.9	3907.0	3966.1	4303.1	2855.1
62.5°	1365.0	1411.7	1725.0	2158.3	2831.7	3459.5	3971.4	4213.1	4234.7	4500.6	3152.6
65°	650.2	680.4	906.2	1333.5	2051.1	3024.9	4236.9	4766.9	4776.6	4892.2	3550.0
67.5°	360.0	374.5	482.0	717.8	1199.1	2139.2	4129.6	5422.7	5431.9	5292.0	3898.7
69°	281.6	294.0	378.6	541.1	812.9	1537.5	3737.0	5614.8	5642.0	5406.5	3911.1
70°	239.0	251.1	326.0	457.0	653.7	1188.0	3326.4	5567.1	5596.0	5395.8	3818.7
72.5°	146.3	153.3	217.2	321.7	438.1	597.6	2051.3	4708.1	4756.9	4949.6	3281.9
75°	98.6	102.4	135.8	222.0	313.4	307.7	1065.7	3318.6	3424.2	3850.2	2424.0
77.5°	70.6	74.1	91.1	143.6	219.6	203.2	482.6	2062.4	2085.0	2309.2	1321.9
80°	40.1	43.4	64.4	85.4	149.0	135.5	191.8	985.1	996.4	990.2	441.4
82.5°	21.0	23.7	35.3	56.3	95.7	88.6	79.8	329.8	331.4	275.6	96.7
85°	4.0	4.9	17.5	38.5	49.3	38.5	32.6	77.3	78.9	69.8	24.0
87.5°	0.0	0.3	7.0	8.6	9.7	10.0	10.5	15.1	16.2	21.8	6.5
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°	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6	645.6
2.5°	648.6	638.9	620.3	598.7	582.0	565.6	552.6	539.2	534.3	531.9	531.6
5°	655.0	634.6	595.2	554.8	521.7	490.4	468.0	446.8	436.8	432.2	430.3
7.5°	665.8	632.9	569.6	507.9	460.2	421.2	390.2	367.0	355.4	350.6	348.7
10°	678.5	630.8	539.7	458.3	397.4	357.0	326.3	303.4	290.7	285.3	282.7
12.5°	693.3	627.0	505.2	408.2	343.8	303.4	266.2	237.9	223.4	217.2	214.2
15°	711.6	623.2	469.1	361.1	296.7	247.4	206.7	187.5	184.6	183.5	183.8
17.5°	729.7	617.3	429.8	314.4	247.1	193.2	172.4	171.4	171.9	171.9	171.9
20°	745.8	603.8	386.9	274.6	199.9	163.0	158.7	156.8	155.5	154.4	153.0
22.5°	758.5	585.8	345.7	235.0	163.3	149.3	142.5	136.6	131.8	128.5	126.9
25°	767.1	561.8	308.0	197.0	146.9	135.8	123.7	113.7	106.2	101.6	99.7
27.5°	773.6	535.9	274.3	164.9	135.5	120.2	104.3	92.4	84.6	80.6	78.9
30°	778.2	506.6	244.7	145.0	122.9	103.7	86.8	75.2	69.5	67.4	66.3
32.5°	782.5	474.0	216.6	135.5	111.0	88.6	72.8	63.9	60.4	57.7	56.9
35°	793.3	443.8	190.0	125.6	98.9	75.7	62.5	56.0	52.5	50.9	50.4
37.5°	818.9	421.4	164.4	115.3	86.8	65.5	54.7	50.1	46.9	45.3	44.7
40°	860.1	410.1	142.8	104.3	74.9	57.7	49.6	45.3	41.8	39.3	38.8
42.5°	920.7	411.7	127.7	93.2	65.5	51.5	44.7	39.6	35.8	33.7	33.1
45°	994.3	423.6	117.2	82.5	57.7	46.6	39.3	34.0	30.4	28.6	28.0
47.5°	1074.0	442.7	108.6	72.8	51.5	42.0	34.0	28.3	25.3	23.7	23.4
50°	1158.1	461.3	99.7	63.3	46.1	37.5	28.6	23.4	21.0	19.7	19.1
52.5°	1243.2	482.9	91.6	54.7	41.5	32.1	23.7	19.1	17.2	16.2	15.6
55°	1334.9	499.0	83.8	48.0	36.9	27.2	19.7	15.9	14.3	12.9	12.7
57.5°	1442.6	524.1	75.7	41.5	31.5	22.6	16.2	12.7	11.3	10.0	9.7
60°	1588.1	553.5	67.1	36.6	25.9	18.6	13.2	10.2	8.6	7.5	7.3
62.5°	1780.0	586.1	56.3	32.1	21.0	15.1	10.5	8.1	6.2	4.9	4.9
65°	2023.3	639.1	46.1	26.9	17.2	12.4	8.1	5.9	3.5	2.2	2.2
67.5°	2165.3	648.3	37.2	22.1	14.0	10.5	6.7	4.0	1.1	0.3	0.0
69°	2119.8	595.2	31.5	18.9	12.1	10.0	6.2	3.0	0.5	0.0	0.0
70°	2034.1	544.3	27.8	16.7	11.0	9.4	5.9	2.2	0.5	0.0	0.0
72.5°	1680.8	387.5	21.0	12.4	8.1	8.4	5.4	1.3	0.5	0.0	0.0
75°	1224.4	235.5	15.1	8.6	5.1	6.2	3.8	0.5	0.3	0.0	0.0
77.5°	681.2	111.0	9.4	4.9	3.2	3.8	1.9	0.0	0.0	0.0	0.0
80°	221.2	30.2	4.3	2.7	1.9	2.2	0.8	0.0	0.0	0.0	0.0
82.5°	41.0	8.6	2.4	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.9	3.5	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.1	0.3	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)