

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: P321576

Luminaire Tested: **GAN-SA2D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321576
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-SA2D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11119 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

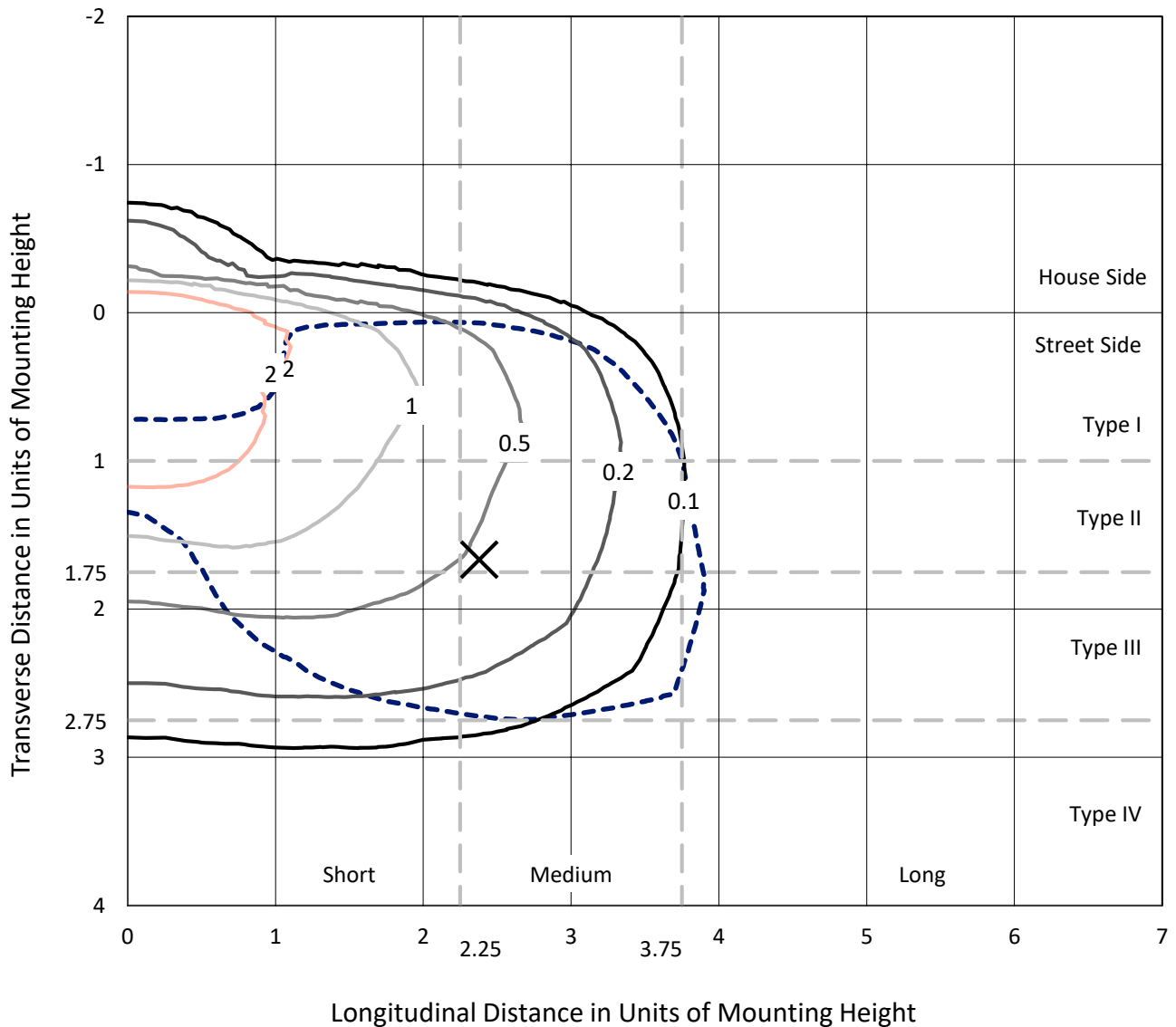
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321576
 CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

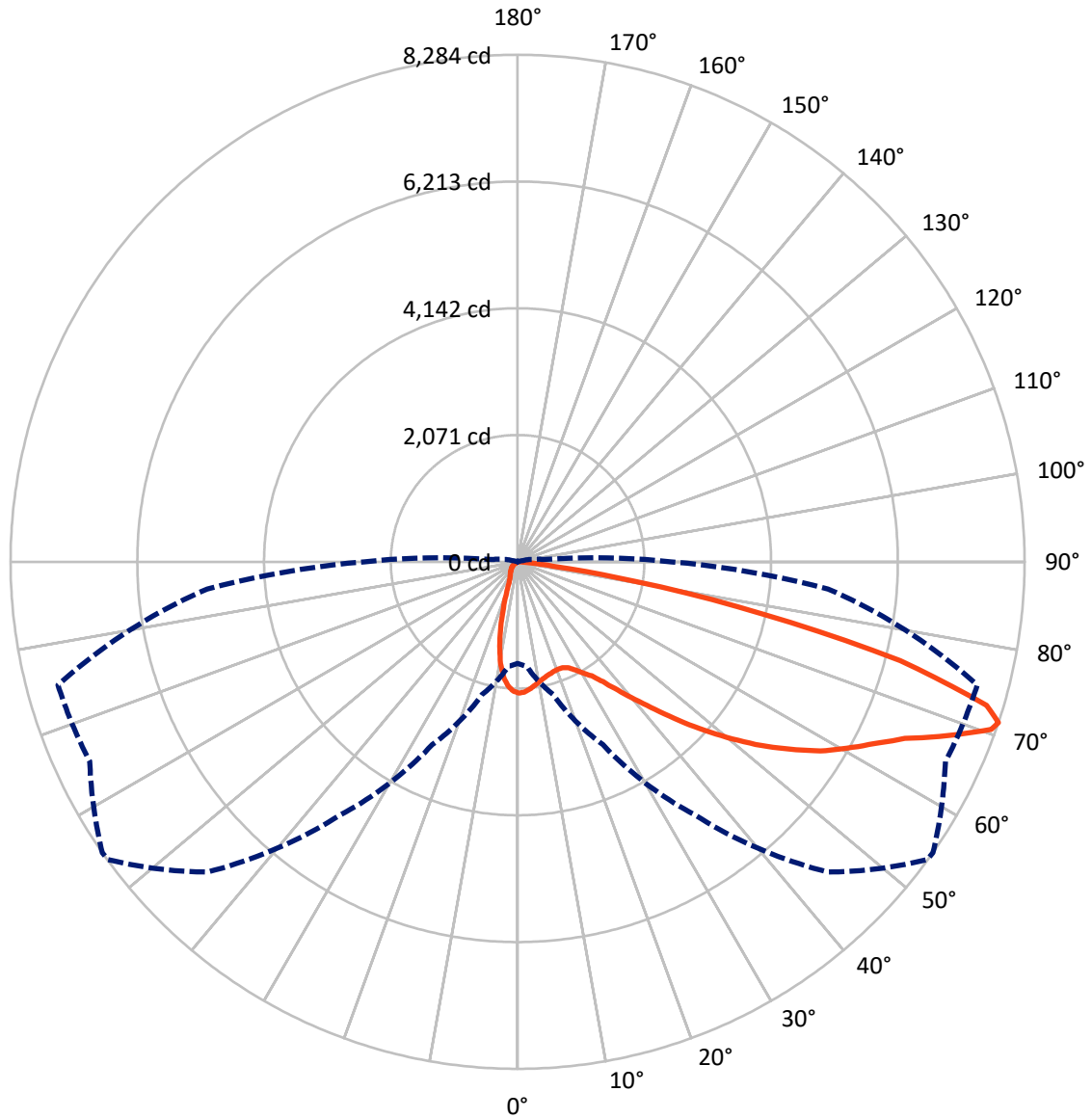
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321576
CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321576
 CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.3	0.0	880.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10238.7	0.0	10238.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	11119.0	0.0	11119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.6
10°-20°	412.8	3.7
20°-30°	663.3	6.0
30°-40°	1127.0	10.1
40°-50°	1749.3	15.7
50°-60°	2351.8	21.2
60°-70°	2877.1	25.9
70°-80°	1682.2	15.1
80°-90°	72.7	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°	11119.0	100.0
0°-180°	11119.0	100.0

Coefficient of Utilization

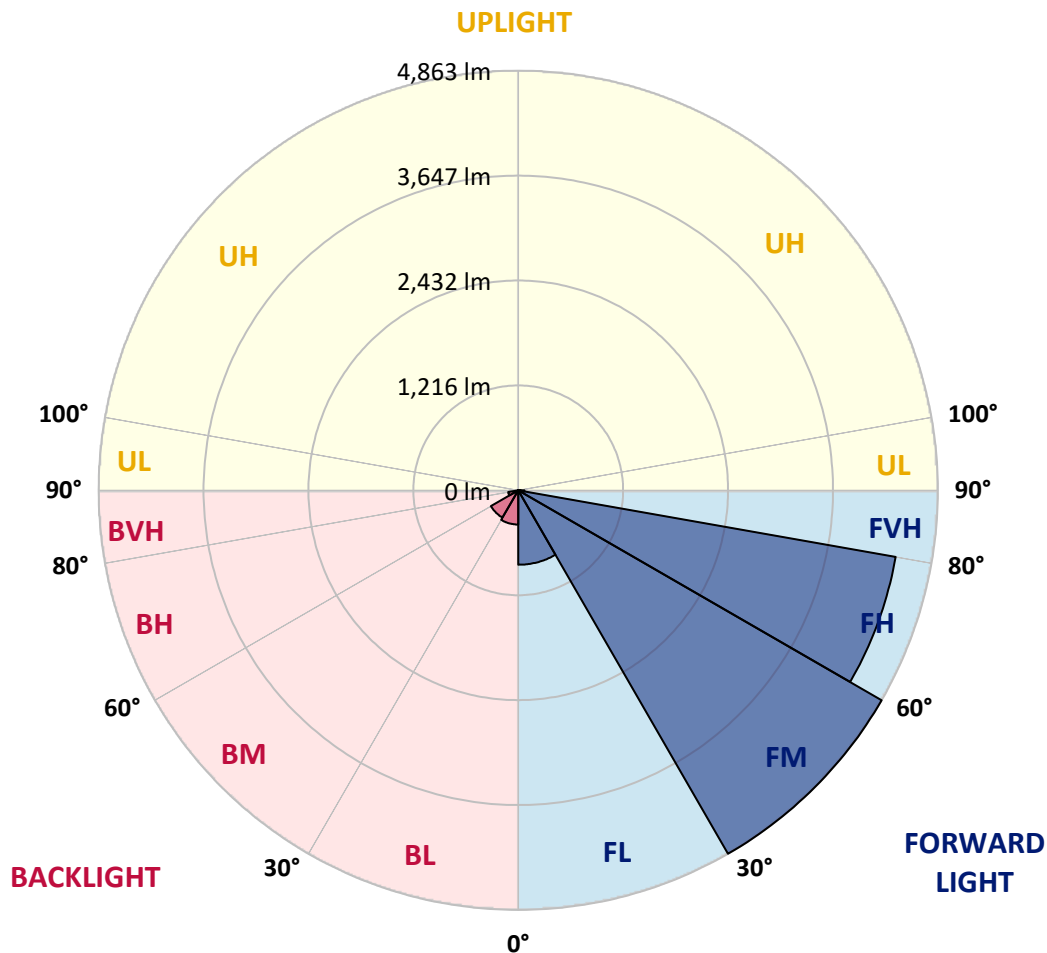


REPORT NUMBER: P321576
 CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.7	7.8			
FM (30°-60°)	4863.1	43.7			
FH (60°-80°)	4441.3	39.9			G2/5000
FVH (80°-90°)	71.6	0.6			G1/100
BL (0°-30°)	396.2	3.6	B1/500		
BM (30°-60°)	365.0	3.3	B1/1000		
BH (60°-80°)	118.0	1.1	B1/500		G1/500
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 III Medium





REPORT NUMBER: P321576

CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3
2.5°	2081.4	2083.9	2092.9	2096.9	2106.4	2122.4	2130.4	2130.9	2143.8	2148.8	2152.8
5°	1934.1	1949.1	1964.1	1980.1	2009.0	2047.5	2085.4	2088.9	2130.9	2161.8	2178.3
7.5°	1807.3	1820.8	1838.8	1864.3	1905.2	1965.6	2029.0	2036.5	2115.9	2186.3	2223.2
10°	1677.0	1688.0	1714.0	1751.4	1807.8	1888.7	1974.1	1986.6	2102.4	2219.2	2284.1
12.5°	1537.7	1544.2	1575.7	1629.6	1712.5	1815.3	1927.7	1944.1	2093.9	2257.2	2356.0
15°	1431.9	1434.9	1464.8	1520.8	1615.6	1749.4	1891.7	1911.7	2095.9	2302.6	2434.4
17.5°	1404.9	1406.4	1422.4	1460.8	1544.7	1690.5	1863.3	1887.7	2101.9	2347.0	2513.3
20°	1514.3	1503.8	1487.3	1481.3	1517.3	1655.1	1846.3	1873.7	2109.9	2386.5	2584.2
22.5°	1814.3	1783.4	1715.0	1623.6	1568.2	1657.6	1850.8	1878.2	2135.4	2434.9	2666.1
25°	2259.7	2216.7	2100.4	1920.7	1747.9	1729.5	1888.2	1916.2	2184.8	2492.8	2744.5
27.5°	2766.4	2724.0	2581.7	2325.1	2030.5	1871.7	1974.1	2000.1	2258.2	2544.2	2804.4
30°	3251.7	3239.7	3072.0	2780.4	2386.0	2102.4	2084.9	2106.9	2312.6	2575.2	2851.8
32.5°	3663.1	3644.1	3509.3	3225.7	2792.9	2379.5	2215.2	2221.7	2353.5	2615.1	2913.7
35°	4044.5	4021.1	3902.7	3634.6	3210.3	2718.0	2415.9	2406.5	2442.9	2695.5	3003.6
37.5°	4377.5	4399.0	4267.7	4012.6	3584.7	3070.0	2686.5	2658.1	2582.7	2826.3	3133.9
40°	4656.1	4656.1	4587.7	4375.1	3989.1	3433.9	2992.6	2955.1	2792.9	3028.0	3299.1
42.5°	4756.5	4778.0	4803.4	4683.1	4351.1	3812.4	3333.6	3294.6	3088.9	3314.1	3507.8
45°	4762.5	4796.4	4926.7	4926.2	4678.1	4188.3	3718.0	3699.5	3468.4	3681.6	3766.4
47.5°	4678.1	4720.5	4935.2	5057.0	4937.2	4538.3	4138.4	4115.4	3914.2	4131.9	4037.0
50°	4547.8	4594.7	4844.4	5108.5	5113.5	4842.9	4581.2	4546.8	4405.0	4646.7	4316.6
52.5°	4314.6	4405.5	4763.0	5120.5	5229.3	5106.0	5002.6	4987.6	4954.2	5142.4	4539.3
55°	3815.9	3916.7	4558.8	5124.4	5336.6	5339.1	5397.5	5401.5	5468.9	5605.7	4705.1
57.5°	3580.2	3637.1	4202.3	5143.4	5495.9	5603.7	5800.0	5830.9	5935.3	6045.6	4894.3
60°	3431.9	3499.3	4026.6	5117.5	5746.0	5950.7	6172.9	6183.4	6295.2	6499.4	5150.4
62.5°	3313.6	3380.0	3915.7	5017.6	6027.1	6368.1	6537.4	6538.4	6622.2	7040.1	5441.5
65°	3021.5	3077.5	3691.6	4905.3	6212.8	6781.0	6960.7	6954.2	7022.6	7610.3	5779.5
67.5°	2599.2	2642.1	3233.7	4479.4	6142.9	7156.5	7599.8	7578.3	7495.5	8103.1	5912.3
70°	2009.5	2025.0	2548.7	3733.0	5487.9	7300.7	8217.4	8206.4	7785.5	8014.7	5425.5
71°	1661.1	1712.0	2246.2	3294.6	5049.1	7167.4	8277.3	8283.8	7712.6	7774.0	5090.5
72.5°	964.6	1008.0	1628.1	2530.3	4286.7	6611.3	7966.8	8013.7	7372.1	7071.1	4348.1
75°	206.7	221.2	603.6	1224.7	2358.0	4633.7	6288.2	6455.5	6008.6	4810.4	2620.6
77.5°	143.8	155.3	258.6	555.7	779.4	2289.6	3906.2	4095.0	3589.7	1807.8	838.8
80°	113.8	126.8	201.7	274.6	210.7	738.4	1829.8	1945.1	1197.2	403.4	141.3
82.5°	63.4	75.4	157.3	148.3	80.9	140.3	512.2	579.1	239.6	81.4	33.5
85°	18.5	22.5	101.4	107.8	34.4	27.0	87.4	108.3	45.4	21.5	15.0
87.5°	0.0	0.0	48.9	41.4	10.0	4.0	8.0	9.0	9.0	9.0	10.0
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: P321576
 CATALOG NUMBER: GAN-SA2D-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3	2144.3
2.5°	2152.8	2156.3	2143.8	2127.4	2109.9	2088.4	2066.0	2048.5	2048.0	2039.5	2031.0
5°	2179.3	2177.3	2142.8	2090.4	2028.5	1964.1	1902.7	1833.3	1810.3	1781.9	1772.4
7.5°	2228.2	2214.2	2141.3	2026.5	1890.7	1755.9	1616.6	1476.3	1416.4	1362.5	1353.0
10°	2289.6	2263.2	2131.9	1930.7	1681.5	1432.9	1222.7	1032.0	948.1	883.7	880.7
12.5°	2353.5	2313.1	2105.4	1785.9	1407.4	1057.9	815.8	628.1	558.2	513.2	517.2
15°	2420.4	2360.0	2048.5	1590.7	1095.4	717.9	501.3	390.9	363.0	351.5	354.5
17.5°	2488.8	2392.5	1969.1	1355.5	787.3	463.3	347.0	316.0	316.0	318.5	319.5
20°	2548.2	2409.9	1852.3	1091.9	533.7	337.5	303.6	299.1	301.6	305.5	306.0
22.5°	2607.2	2410.9	1700.0	824.8	373.4	295.6	289.1	287.1	288.6	293.1	293.6
25°	2655.1	2399.0	1509.3	586.6	298.1	278.6	275.6	274.6	275.6	281.1	281.1
27.5°	2674.6	2355.5	1276.6	412.4	267.1	259.6	258.6	259.6	261.1	265.1	265.6
30°	2676.6	2279.6	1023.0	298.6	242.1	234.2	236.2	239.6	238.1	237.2	238.1
32.5°	2681.5	2191.8	775.9	245.6	221.2	208.7	206.2	206.2	200.2	196.7	194.7
35°	2698.0	2088.4	562.7	220.7	199.7	185.2	175.7	164.8	153.3	147.3	145.8
37.5°	2724.0	1980.1	402.9	204.2	180.7	164.3	146.3	126.8	110.3	105.8	105.8
40°	2771.4	1868.2	298.1	191.2	165.8	145.3	118.3	92.9	77.9	75.4	75.4
42.5°	2846.3	1750.4	237.6	179.7	152.8	125.8	90.4	67.4	56.4	54.9	54.4
45°	2924.2	1620.6	207.7	168.8	138.8	103.3	66.9	49.9	43.4	41.9	41.9
47.5°	3002.1	1482.3	193.2	158.3	125.3	80.4	49.9	39.4	36.4	36.4	36.9
50°	3068.0	1338.0	182.7	146.8	107.8	60.9	39.4	33.5	32.5	34.4	34.9
52.5°	3084.5	1196.2	169.7	132.3	86.4	46.4	32.5	29.5	29.5	29.5	29.5
55°	3074.5	1086.4	152.8	114.3	63.9	36.9	28.0	26.0	25.5	25.5	25.5
57.5°	3108.4	1021.5	122.3	88.9	45.9	30.0	24.5	23.0	22.0	21.5	21.5
60°	3176.8	979.1	87.4	63.9	34.4	25.0	21.0	19.5	18.0	17.0	17.0
62.5°	3267.7	942.1	64.9	47.4	26.5	20.0	17.5	16.0	14.0	13.0	13.0
65°	3337.6	876.2	49.4	35.4	20.0	16.0	13.5	13.0	10.0	9.0	8.5
67.5°	3230.7	731.4	39.9	26.0	15.0	12.5	10.5	10.0	6.0	5.0	5.0
70°	2770.9	509.2	32.0	19.0	11.0	10.0	8.5	6.5	4.5	4.0	4.0
71°	2512.8	425.4	29.0	16.0	9.5	9.5	8.0	5.5	4.0	3.5	3.5
72.5°	2087.4	302.1	24.5	12.5	8.5	10.0	8.5	5.0	4.0	3.5	3.0
75°	1211.7	126.3	17.0	8.5	6.5	12.0	11.0	4.5	3.0	2.5	2.5
77.5°	364.5	46.4	9.5	5.5	5.0	10.5	12.5	4.0	1.5	0.5	0.5
80°	66.4	20.0	6.0	3.5	3.5	6.5	9.5	2.0	0.0	0.0	0.0
82.5°	23.5	10.0	3.5	2.0	1.5	3.0	4.5	0.0	0.0	0.0	0.0
85°	13.5	7.0	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.0	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)