

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: P323816

Luminaire Tested: **GAN-SA2D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11734 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

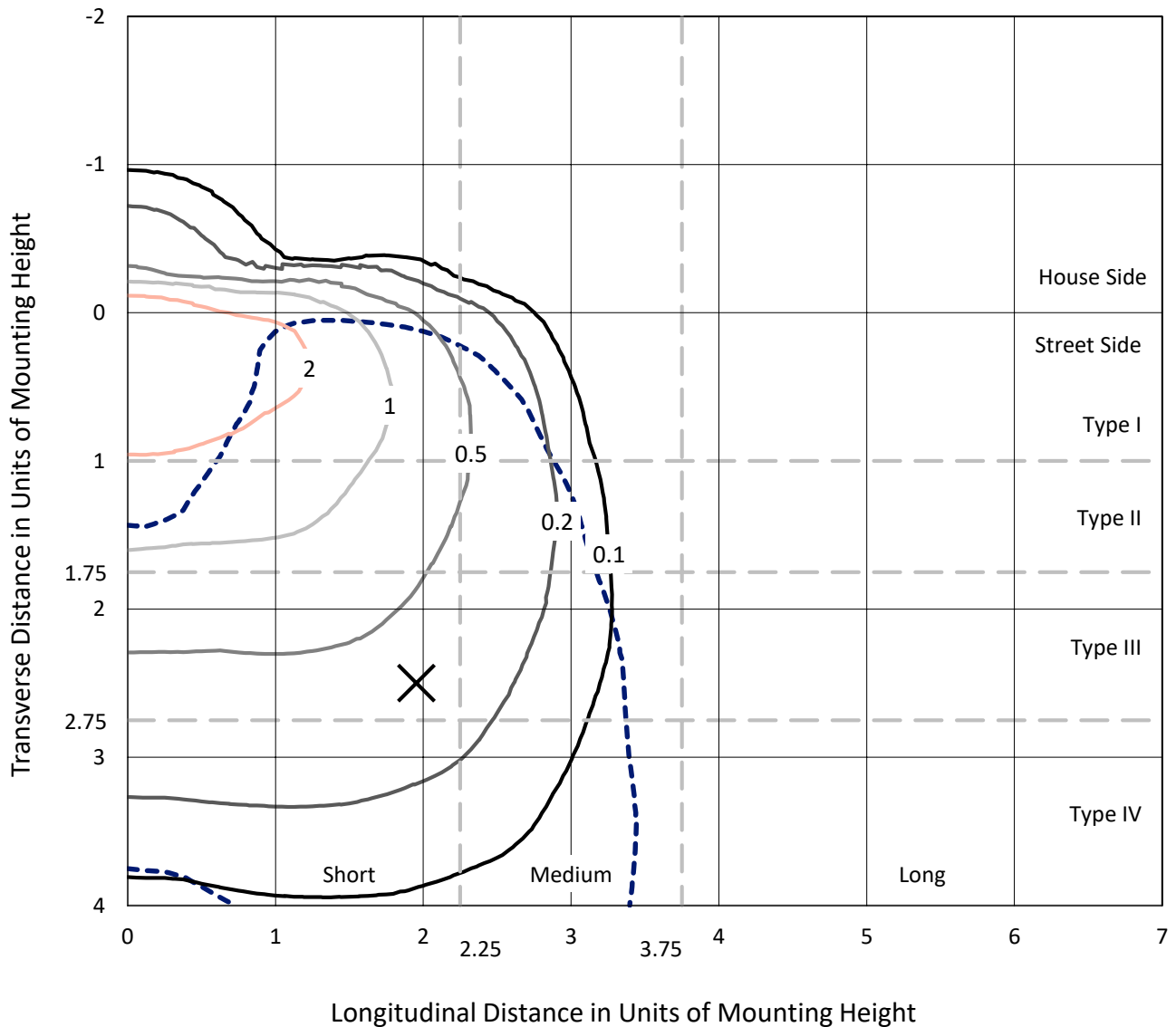
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323816
 CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

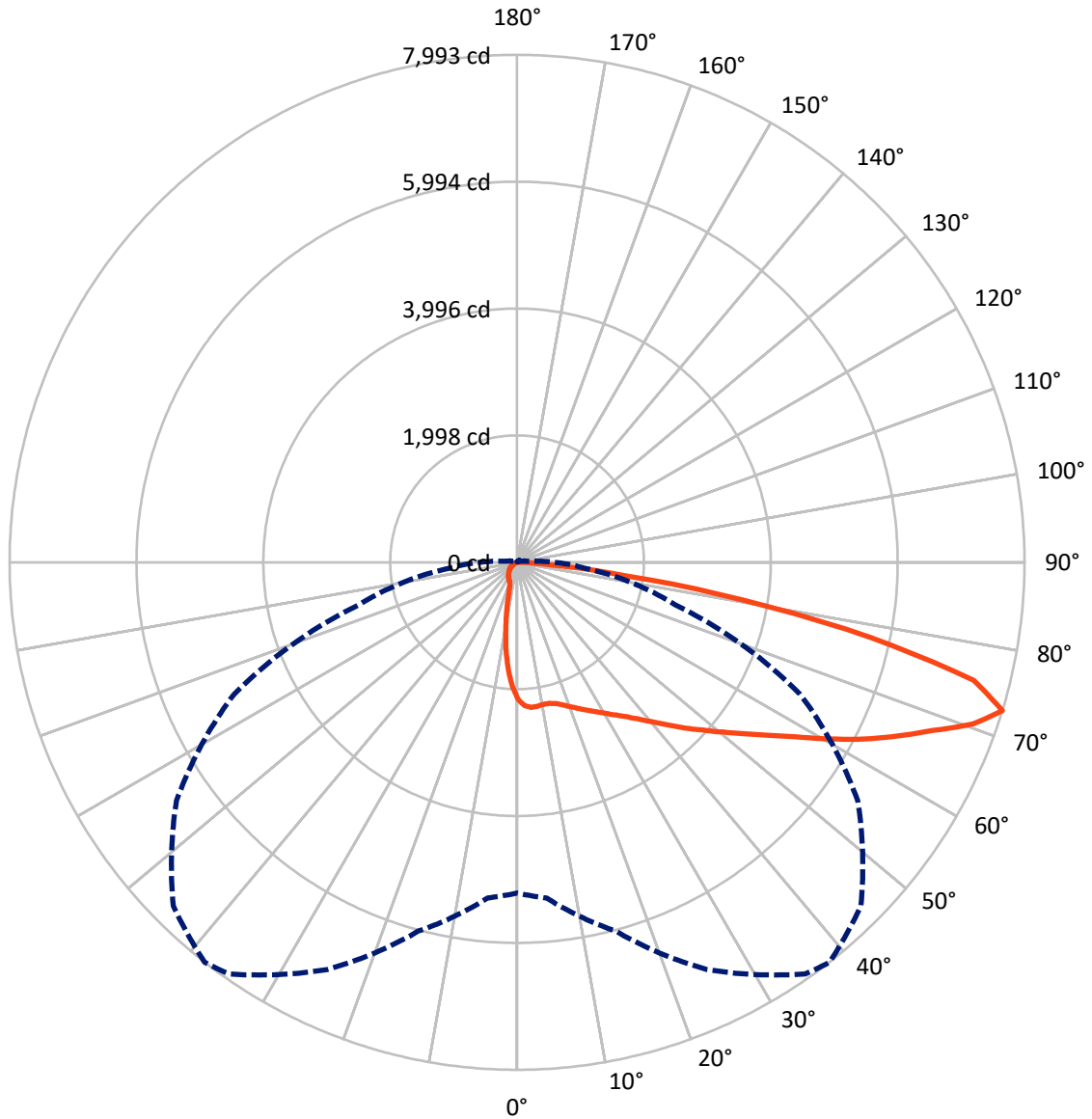
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P323816
CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P323816
 CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.5	0.0	987.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10746.5	0.0	10746.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	11734.0	0.0	11734.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.6
10°-20°	449.7	3.8
20°-30°	715.2	6.1
30°-40°	1075.2	9.2
40°-50°	1640.2	14.0
50°-60°	2318.2	19.8
60°-70°	2907.8	24.8
70°-80°	2174.2	18.5
80°-90°	269.6	2.3
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°	11734.0	100.0
0°-180°	11734.0	100.0



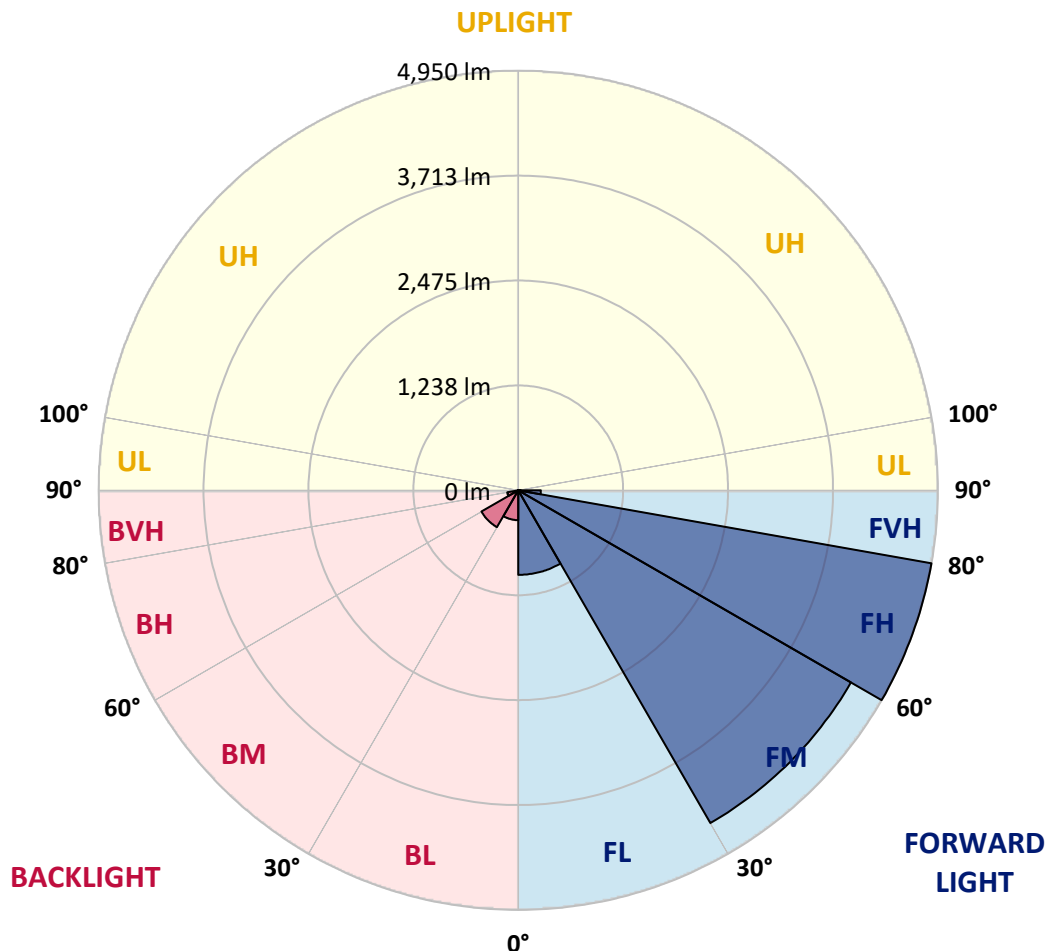
REPORT NUMBER: P323816
 CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.1	8.5			
FM (30°-60°)	4532.2	38.6			
FH (60°-80°)	4950.2	42.2			G2/5000
FVH (80°-90°)	267.1	2.3			G3/500
BL (0°-30°)	351.6	3.0	B1/500		
BM (30°-60°)	501.4	4.3	B1/1000		
BH (60°-80°)	131.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3

Type IV Short





REPORT NUMBER: P323816

CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8
2.5°	2290.4	2290.9	2285.5	2276.7	2265.5	2259.7	2249.9	2234.4	2217.8	2188.1	2155.9
5°	2337.2	2337.2	2330.4	2318.7	2300.6	2295.3	2276.7	2251.9	2217.8	2169.5	2115.4
7.5°	2332.3	2333.3	2324.0	2311.8	2293.8	2288.9	2266.5	2238.7	2196.3	2137.9	2068.7
10°	2307.0	2309.4	2302.1	2296.2	2279.7	2274.3	2253.4	2225.6	2183.2	2120.8	2041.4
12.5°	2281.1	2283.6	2286.0	2291.4	2281.1	2279.2	2262.6	2239.2	2198.8	2134.0	2044.3
15°	2264.6	2269.4	2287.0	2307.9	2310.4	2308.4	2297.7	2275.8	2234.8	2167.6	2065.3
17.5°	2264.6	2272.4	2308.9	2348.9	2363.0	2364.5	2355.2	2324.5	2275.8	2203.7	2084.7
20°	2283.6	2294.3	2351.3	2407.8	2431.2	2431.2	2413.2	2370.3	2313.3	2236.3	2097.9
22.5°	2332.3	2346.4	2418.1	2483.4	2508.2	2502.9	2478.5	2416.1	2352.3	2273.3	2114.5
25°	2428.3	2439.0	2513.6	2579.4	2594.5	2582.3	2551.6	2471.7	2402.0	2323.5	2144.7
27.5°	2552.1	2553.5	2630.5	2686.1	2676.8	2668.6	2630.1	2541.4	2473.6	2395.2	2196.8
30°	2688.0	2688.0	2755.8	2798.2	2769.9	2763.1	2724.6	2625.7	2565.2	2492.6	2270.9
32.5°	2819.6	2825.5	2880.5	2907.3	2875.7	2868.8	2831.3	2732.4	2687.1	2641.3	2386.4
35°	2946.8	2951.2	3003.3	3018.0	2987.7	2989.7	2962.9	2879.1	2862.0	2856.2	2560.4
37.5°	3070.1	3071.1	3124.2	3133.5	3118.3	3134.9	3137.4	3063.3	3095.0	3142.2	2805.5
40°	3182.7	3183.6	3236.3	3260.2	3286.0	3307.4	3326.4	3287.0	3391.7	3501.4	3097.4
42.5°	3272.8	3283.1	3349.8	3395.1	3463.4	3504.3	3556.0	3554.0	3745.0	3909.8	3450.2
45°	3352.3	3369.8	3462.9	3542.3	3659.3	3724.6	3805.5	3868.8	4142.7	4364.4	3807.4
47.5°	3457.0	3473.6	3579.8	3710.0	3865.9	3951.7	4085.7	4222.6	4579.8	4810.8	4156.3
50°	3604.7	3597.4	3702.2	3888.8	4089.1	4201.7	4392.7	4597.8	5013.5	5199.7	4361.5
52.5°	3762.1	3759.2	3836.7	4083.2	4352.2	4483.8	4736.2	4985.8	5428.2	5467.7	4455.5
55°	3957.0	3936.1	4001.4	4305.0	4664.6	4805.9	5103.2	5369.8	5758.6	5618.8	4502.8
57.5°	4161.2	4126.6	4189.0	4552.0	5016.9	5184.1	5509.6	5744.0	5978.4	5722.1	4502.3
60°	4372.2	4331.3	4405.4	4861.0	5454.5	5648.0	5950.2	5996.9	6183.6	5774.2	4469.2
62.5°	4548.6	4524.3	4634.4	5191.4	5943.3	6133.4	6283.0	6226.9	6356.6	5814.7	4391.7
65°	4735.3	4736.7	4914.6	5576.9	6462.8	6591.0	6603.6	6525.2	6501.3	5806.4	4129.5
67.5°	4987.7	5011.1	5307.9	6100.2	6968.2	7067.1	7066.1	6848.3	6607.1	5477.0	3548.2
70°	5254.7	5309.8	5761.1	6699.2	7519.8	7620.2	7568.5	7053.9	6221.1	4428.7	2511.1
72.5°	5209.9	5305.4	6013.0	7076.8	7916.0	7992.5	7656.7	6548.6	4917.0	2574.0	1069.2
75°	4019.4	4130.0	5513.5	6702.6	7500.3	7431.6	6578.8	5095.9	2687.1	718.3	240.7
77.5°	2123.2	2182.2	3642.2	5106.1	5848.3	5704.5	4634.4	2826.9	819.2	177.9	108.2
80°	1112.1	1125.7	1587.2	2897.1	3609.6	3610.5	2746.5	1241.7	337.7	91.1	72.6
82.5°	595.5	607.2	838.7	1338.7	1891.3	1714.4	1051.6	683.2	196.4	51.7	69.7
85°	143.3	145.7	475.6	611.6	743.6	531.2	312.4	573.6	53.1	30.2	56.5
87.5°	55.1	56.0	176.4	264.6	189.6	122.8	146.2	213.9	6.8	11.7	8.8
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: P323816
 CATALOG NUMBER: GAN-SA2D-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8	2157.8
2.5°	2136.4	2123.7	2092.5	2053.1	2018.0	1992.6	1954.6	1929.8	1913.2	1912.7	1906.4
5°	2082.3	2056.5	1989.2	1909.3	1836.7	1771.4	1694.4	1633.5	1588.2	1580.9	1565.3
7.5°	2024.3	1981.9	1878.6	1753.9	1632.0	1508.2	1364.5	1275.3	1198.8	1162.3	1158.4
10°	1988.7	1929.3	1782.6	1602.3	1411.3	1210.0	1021.9	891.8	797.7	770.9	751.0
12.5°	1981.4	1903.0	1708.5	1460.0	1187.1	921.0	712.9	574.5	499.5	475.6	469.3
15°	1988.7	1890.8	1646.2	1319.2	960.0	653.5	478.5	398.1	369.9	363.1	362.6
17.5°	1993.1	1876.2	1575.5	1162.7	739.7	466.9	366.5	343.1	338.7	338.2	339.2
20°	1992.6	1853.8	1491.2	988.3	550.2	367.0	331.4	326.5	325.5	326.0	325.5
22.5°	1989.2	1827.4	1398.6	808.5	415.7	328.0	316.3	313.3	312.9	312.9	312.9
25°	1995.6	1806.5	1296.8	636.4	342.6	309.9	302.6	300.2	299.7	299.7	298.7
27.5°	2018.5	1794.8	1185.2	489.8	309.4	293.9	288.0	287.5	286.1	285.6	286.5
30°	2055.5	1794.8	1062.8	381.1	289.5	277.3	272.9	271.9	271.4	270.9	271.4
32.5°	2120.8	1808.4	929.3	316.8	270.5	258.8	255.8	257.3	255.8	255.8	255.8
35°	2238.7	1849.4	789.5	276.3	250.5	240.7	237.8	239.8	238.8	238.8	238.3
37.5°	2410.8	1925.4	648.6	251.9	232.9	222.7	218.8	221.7	220.8	220.8	220.3
40°	2620.3	2036.0	514.6	233.4	215.9	205.2	201.7	203.2	200.8	200.8	201.7
42.5°	2879.1	2176.4	397.7	215.4	198.8	188.6	186.6	185.2	180.8	178.4	178.8
45°	3166.6	2322.6	309.9	197.9	182.7	174.5	171.5	167.6	160.3	155.5	155.9
47.5°	3423.4	2435.1	251.9	180.8	168.1	161.8	157.4	150.1	139.4	133.5	134.0
50°	3558.4	2452.2	214.4	163.7	154.5	148.1	141.8	130.6	117.9	111.6	111.1
52.5°	3593.0	2372.3	186.6	148.1	140.8	133.5	125.2	110.1	96.0	89.2	88.2
55°	3605.7	2250.4	161.8	133.5	126.2	117.9	107.2	90.2	77.0	70.2	69.7
57.5°	3563.8	2068.7	142.3	120.4	111.6	101.4	88.2	72.1	59.5	54.1	54.1
60°	3470.7	1822.6	127.2	106.2	96.5	84.8	71.1	56.0	44.3	40.0	40.0
62.5°	3285.0	1503.9	113.1	91.6	82.4	70.2	57.5	42.4	31.2	28.8	29.2
65°	2934.6	1140.8	98.9	78.5	70.2	58.0	44.8	30.2	21.0	21.0	21.9
67.5°	2393.2	792.4	84.3	66.8	60.4	47.3	34.1	21.0	14.6	16.6	18.5
70°	1584.3	444.4	72.1	55.1	51.7	37.5	25.3	14.1	11.7	15.6	19.0
72.5°	597.9	173.0	60.4	44.3	44.8	28.8	18.0	10.7	10.7	17.1	22.4
75°	166.7	84.8	43.4	32.7	35.1	21.0	13.2	9.3	10.2	19.5	26.3
77.5°	98.0	62.4	28.3	19.0	23.9	14.6	8.8	7.3	8.8	16.6	25.3
80°	78.9	33.1	16.6	9.7	13.2	8.3	5.8	4.4	2.4	6.3	13.2
82.5°	78.9	20.0	7.8	6.8	6.8	4.4	2.9	1.9	0.5	0.0	3.4
85°	53.1	8.3	4.9	4.4	3.4	1.5	1.0	0.5	0.0	0.0	0.0
87.5°	8.8	3.4	1.9	1.0	0.5	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)