

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: P266921

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16182.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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: 28.75 FT

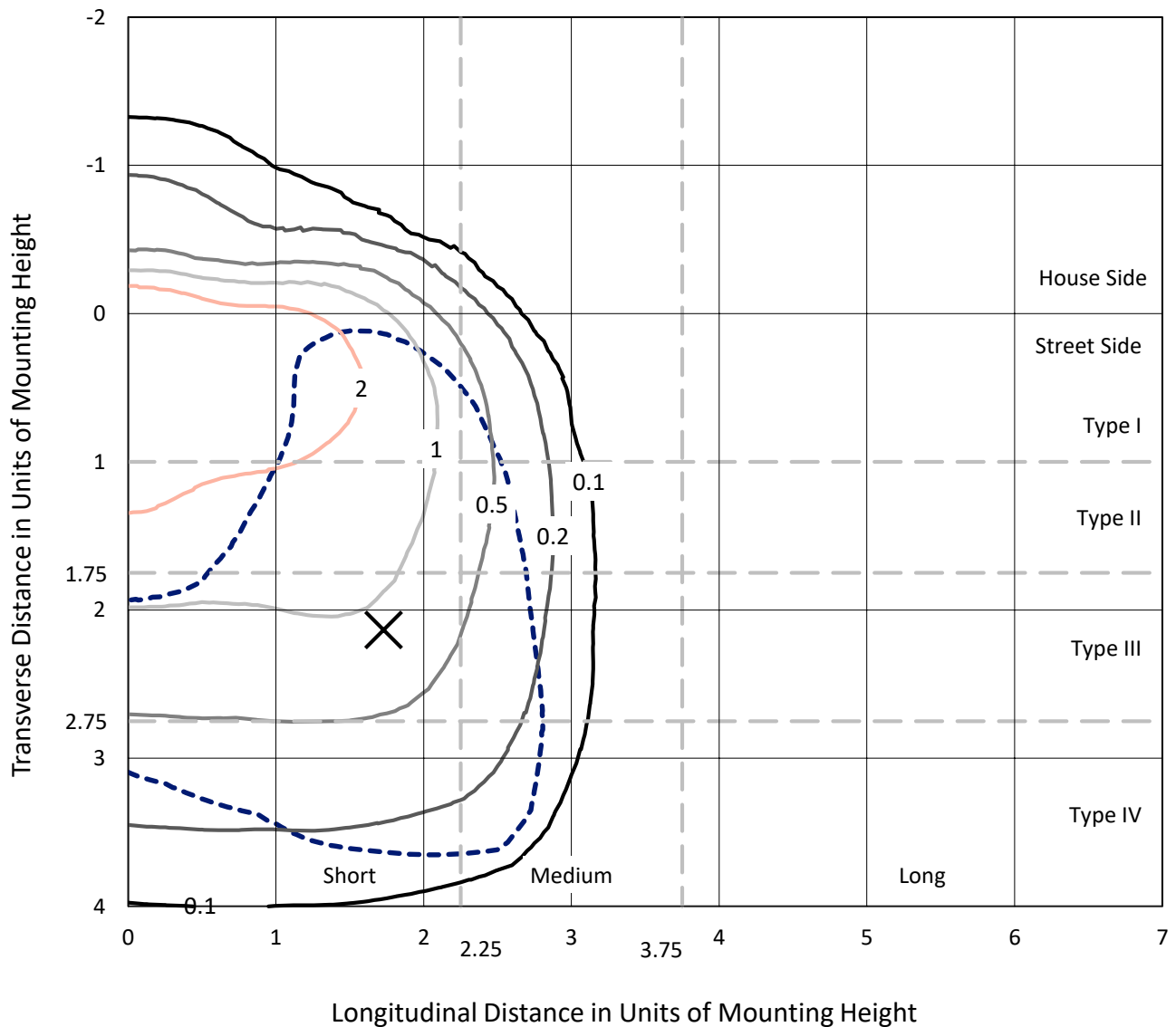


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

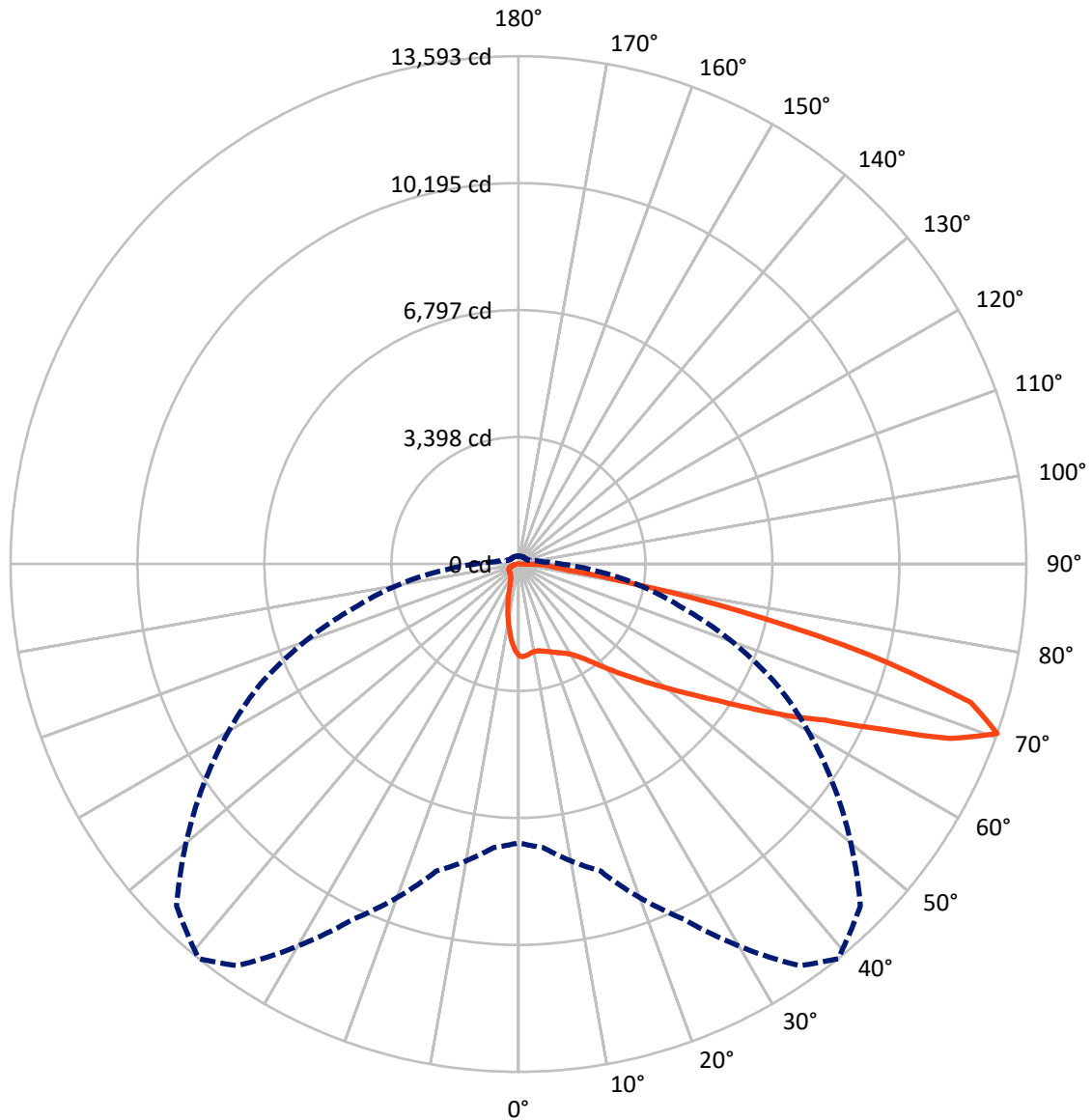


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.5	0.0	1840.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	14342.2	0.0	14342.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	16182.7	0.0	16182.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.3
10°-20°	527.0	3.3
20°-30°	820.6	5.1
30°-40°	1278.3	7.9
40°-50°	2146.1	13.3
50°-60°	3409.2	21.1
60°-70°	4547.5	28.1
70°-80°	2746.1	17.0
80°-90°	497.0	3.1
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°	16182.7	100.0
0°-180°	16182.7	100.0

Coefficient of Utilization



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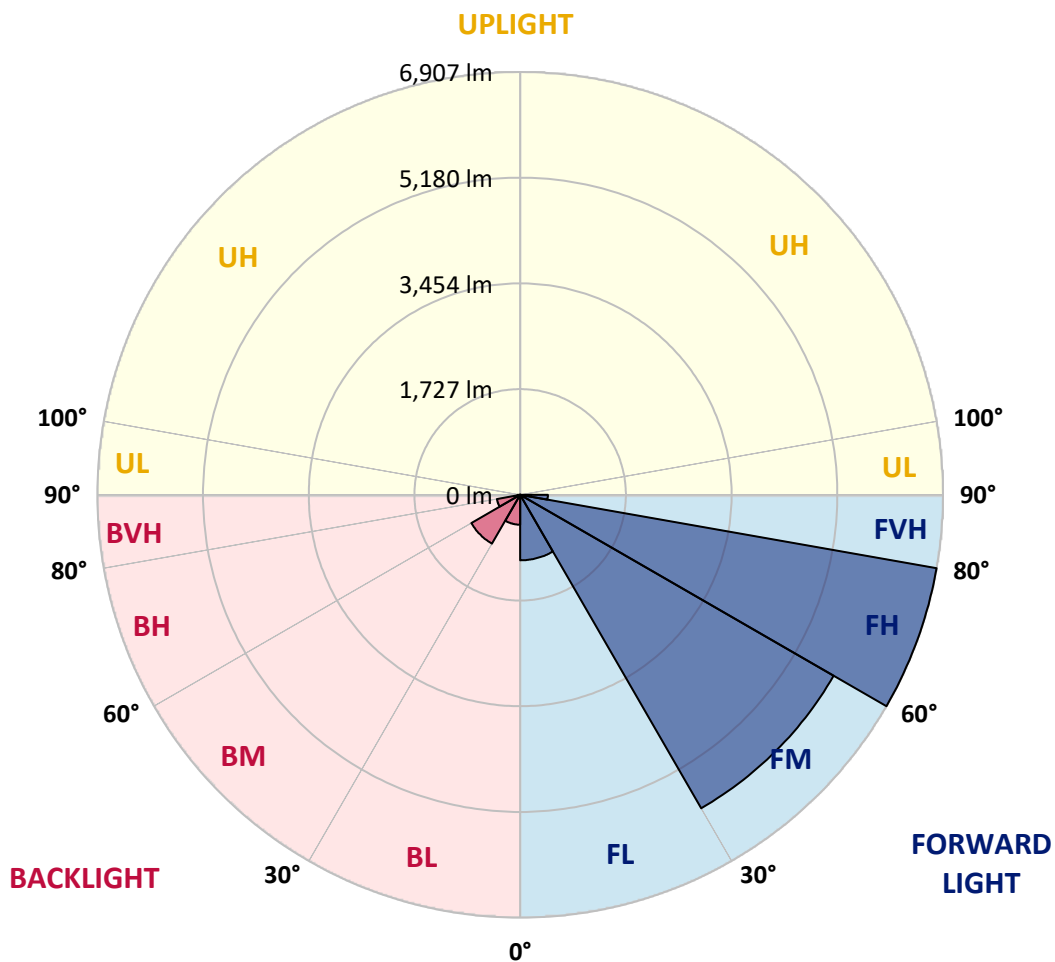
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.2	6.6			
FM	(30°-60°)	5912.5	36.5			
FH	(60°-80°)	6907.2	42.7			G3/7500
FVH	(80°-90°)	452.2	2.8			G3/500
BL	(0°-30°)	488.3	3.0	B1/500		
BM	(30°-60°)	921.1	5.7	B1/1000		
BH	(60°-80°)	386.4	2.4	B1/500		G1/500
BVH	(80°-90°)	44.8	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8
2.5°	2504.6	2503.7	2497.1	2492.2	2488.0	2486.4	2489.7	2477.3	2466.7	2453.5	2439.4
5°	2485.6	2484.7	2474.0	2464.2	2454.3	2451.0	2450.1	2427.9	2414.9	2395.2	2368.7
7.5°	2464.9	2460.8	2447.0	2430.5	2413.1	2404.9	2396.7	2367.9	2353.1	2333.3	2303.0
10°	2443.6	2438.7	2425.6	2409.1	2392.5	2380.2	2366.2	2338.3	2322.7	2307.8	2272.5
12.5°	2421.4	2417.2	2413.9	2406.6	2395.2	2384.5	2373.7	2349.8	2333.3	2316.1	2275.0
15°	2418.1	2416.5	2423.8	2428.7	2422.2	2415.6	2404.1	2383.6	2366.2	2349.0	2295.4
17.5°	2444.5	2443.6	2462.6	2475.6	2472.4	2460.8	2445.2	2422.2	2408.3	2393.4	2326.8
20°	2502.0	2506.1	2529.2	2546.4	2529.9	2513.5	2488.0	2456.0	2448.6	2442.0	2358.9
22.5°	2610.7	2614.7	2631.2	2637.9	2595.1	2571.2	2535.7	2494.7	2489.7	2494.7	2397.5
25°	2780.2	2776.0	2773.5	2748.9	2670.8	2633.7	2588.5	2545.6	2548.1	2570.3	2451.8
27.5°	3004.7	2982.6	2948.0	2873.9	2749.7	2708.6	2653.5	2613.9	2629.6	2672.4	2533.3
30°	3237.6	3212.9	3133.1	3012.1	2853.3	2808.1	2746.4	2701.9	2743.2	2810.5	2641.8
32.5°	3453.2	3449.9	3333.0	3177.6	2996.6	2957.0	2895.2	2845.1	2911.8	3014.6	2804.8
35°	3688.5	3695.8	3556.0	3369.3	3189.9	3148.6	3104.4	3066.5	3155.2	3296.8	3040.9
37.5°	3940.2	3955.1	3789.7	3579.0	3410.3	3393.1	3366.8	3350.3	3487.7	3683.5	3370.9
40°	4276.7	4261.9	4032.4	3816.0	3681.1	3680.3	3672.0	3691.8	3920.6	4188.6	3794.6
42.5°	4637.1	4593.6	4289.9	4070.2	3978.1	4006.0	4022.5	4103.2	4441.3	4802.5	4311.2
45°	5025.5	4927.6	4557.3	4339.3	4308.0	4367.2	4423.2	4598.5	5054.3	5501.0	4877.3
47.5°	5335.7	5241.0	4833.8	4621.5	4689.8	4779.4	4887.1	5164.4	5740.3	6222.6	5436.1
50°	5580.0	5518.3	5112.7	4950.6	5110.2	5248.4	5424.4	5805.4	6454.6	6925.3	5953.5
52.5°	5817.0	5770.9	5394.1	5288.0	5603.8	5794.7	6034.2	6493.3	7186.9	7616.4	6388.7
55°	6031.0	5998.0	5696.8	5708.4	6184.7	6433.2	6734.4	7276.5	7984.9	8232.5	6757.4
57.5°	6272.0	6229.9	6042.4	6235.8	6931.1	7253.5	7645.1	8156.9	8733.6	8780.6	7038.0
60°	6514.7	6478.4	6425.8	6844.5	7878.9	8217.8	8588.9	9010.1	9493.1	9205.9	7021.5
62.5°	6725.3	6729.5	6822.4	7483.9	8807.0	9199.4	9651.8	10068.3	10180.1	9280.0	6502.3
65°	7082.3	7147.4	7424.6	8388.9	10113.5	10638.4	11193.7	11127.0	10370.2	8588.1	5389.1
67.5°	7507.0	7621.3	8183.2	9595.1	11764.7	12461.6	12676.3	11366.6	9609.1	6981.2	3841.5
70°	7464.1	7621.3	8510.7	10494.4	13125.6	13593.0	12941.3	10287.0	7630.4	4560.5	2040.5
72.5°	6628.2	6852.8	7843.5	10082.1	12697.0	12655.9	11234.9	7669.0	4533.4	1831.5	797.2
75°	5051.8	5278.9	6131.2	7965.2	10035.2	9689.7	7971.7	4236.4	1720.4	727.3	502.7
77.5°	2905.9	3082.1	3740.4	4884.8	6366.6	6011.9	4437.2	1884.1	837.6	506.9	392.5
80°	1622.5	1720.4	2120.3	2478.2	3120.0	2859.9	1985.3	1170.9	625.3	367.8	302.8
82.5°	1282.7	1369.9	1714.7	1563.3	1425.0	1314.8	1140.4	1042.5	499.4	232.0	181.0
85°	1120.6	1203.6	1451.3	1230.9	973.4	892.6	926.4	1026.0	388.3	139.9	154.7
87.5°	1038.4	1149.4	1293.4	948.6	757.8	671.4	854.8	1124.7	125.0	87.2	62.5
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°	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8	2456.8
2.5°	2427.2	2413.9	2392.5	2373.7	2344.0	2328.4	2311.2	2298.9	2288.9	2280.6	2293.9
5°	2352.3	2327.6	2282.4	2233.8	2176.2	2131.0	2093.1	2057.7	2033.0	2016.5	2028.2
7.5°	2281.5	2241.2	2170.5	2082.5	1983.6	1899.7	1830.7	1769.8	1727.8	1700.6	1711.4
10°	2241.2	2191.1	2081.6	1943.4	1797.8	1667.0	1558.3	1464.5	1399.5	1362.5	1368.3
12.5°	2231.3	2166.4	2015.0	1824.8	1625.8	1443.9	1291.0	1160.9	1069.6	1021.9	1023.4
15°	2238.8	2155.7	1952.5	1711.4	1459.6	1230.0	1039.2	881.1	775.1	720.7	719.9
17.5°	2251.2	2147.4	1886.6	1588.7	1291.0	1024.3	811.3	656.7	562.8	519.2	515.8
20°	2264.3	2134.3	1812.6	1456.3	1115.7	833.4	635.2	514.2	455.0	431.1	429.5
22.5°	2283.2	2122.8	1736.1	1316.5	943.7	678.8	522.5	441.0	409.7	397.4	395.8
25°	2313.7	2116.9	1654.6	1170.9	789.0	567.6	455.0	404.7	386.7	378.5	377.6
27.5°	2364.6	2125.2	1578.1	1029.3	663.2	492.8	417.2	386.7	373.5	366.1	365.3
30°	2430.5	2150.7	1497.5	895.3	565.3	441.8	394.0	374.4	363.6	356.3	356.3
32.5°	2539.9	2193.5	1412.7	779.2	495.3	406.5	376.7	363.6	354.7	348.8	348.1
35°	2701.2	2274.1	1333.8	682.9	445.1	380.9	361.9	352.1	345.6	342.3	342.3
37.5°	2935.7	2401.7	1263.7	613.8	414.7	363.6	348.1	340.6	336.5	336.5	336.5
40°	3250.7	2577.7	1207.1	567.6	397.4	351.2	337.4	331.6	329.0	329.9	329.9
42.5°	3639.9	2806.5	1169.1	535.6	389.1	344.0	329.9	324.9	322.5	321.8	322.5
45°	4083.3	3066.5	1165.0	511.8	380.9	339.0	324.9	320.1	315.1	311.8	311.8
47.5°	4514.5	3330.6	1198.8	503.5	371.9	333.2	320.9	315.9	308.6	301.1	301.1
50°	4895.5	3555.2	1244.1	506.9	368.7	324.9	314.2	311.8	300.4	292.0	291.3
52.5°	5198.2	3728.0	1281.1	516.6	371.9	319.3	306.1	307.0	294.6	285.5	284.7
55°	5440.9	3841.5	1271.2	526.5	379.4	315.9	298.6	300.4	290.4	281.3	281.3
57.5°	5547.2	3799.6	1161.8	518.3	385.1	316.7	292.8	299.4	291.3	283.1	283.1
60°	5319.1	3426.9	956.9	482.1	377.6	314.2	290.4	302.8	302.0	293.7	292.8
62.5°	4629.8	2759.6	742.1	428.6	352.1	302.0	283.9	302.0	311.1	308.6	307.7
65°	3568.3	1965.6	566.9	371.1	317.6	281.3	266.5	283.1	295.4	298.6	297.9
67.5°	2316.1	1204.5	436.8	316.7	279.0	257.5	244.3	251.7	254.2	254.2	252.7
70°	1138.7	648.3	348.1	266.5	239.4	232.0	224.7	220.5	216.4	213.1	213.1
72.5°	562.0	423.7	286.3	225.5	206.5	203.2	201.6	196.6	193.3	189.3	187.6
75°	415.5	344.7	243.5	190.0	177.8	174.5	177.8	173.6	172.7	169.5	167.9
77.5°	341.4	293.7	209.8	163.0	152.3	146.5	151.4	152.3	153.0	148.1	146.5
80°	277.2	248.6	175.3	134.9	125.0	120.9	124.2	130.9	132.5	125.0	121.8
82.5°	200.0	203.2	141.6	105.3	97.0	93.9	100.4	108.7	110.2	99.5	97.0
85°	167.9	169.5	108.7	74.9	66.7	61.8	72.5	80.7	86.3	75.6	73.2
87.5°	70.0	99.5	62.5	42.0	37.0	32.1	38.6	42.8	51.8	47.7	46.9
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)