

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: P193319

Luminaire Tested: **GAN-AF-01-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6566.5 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

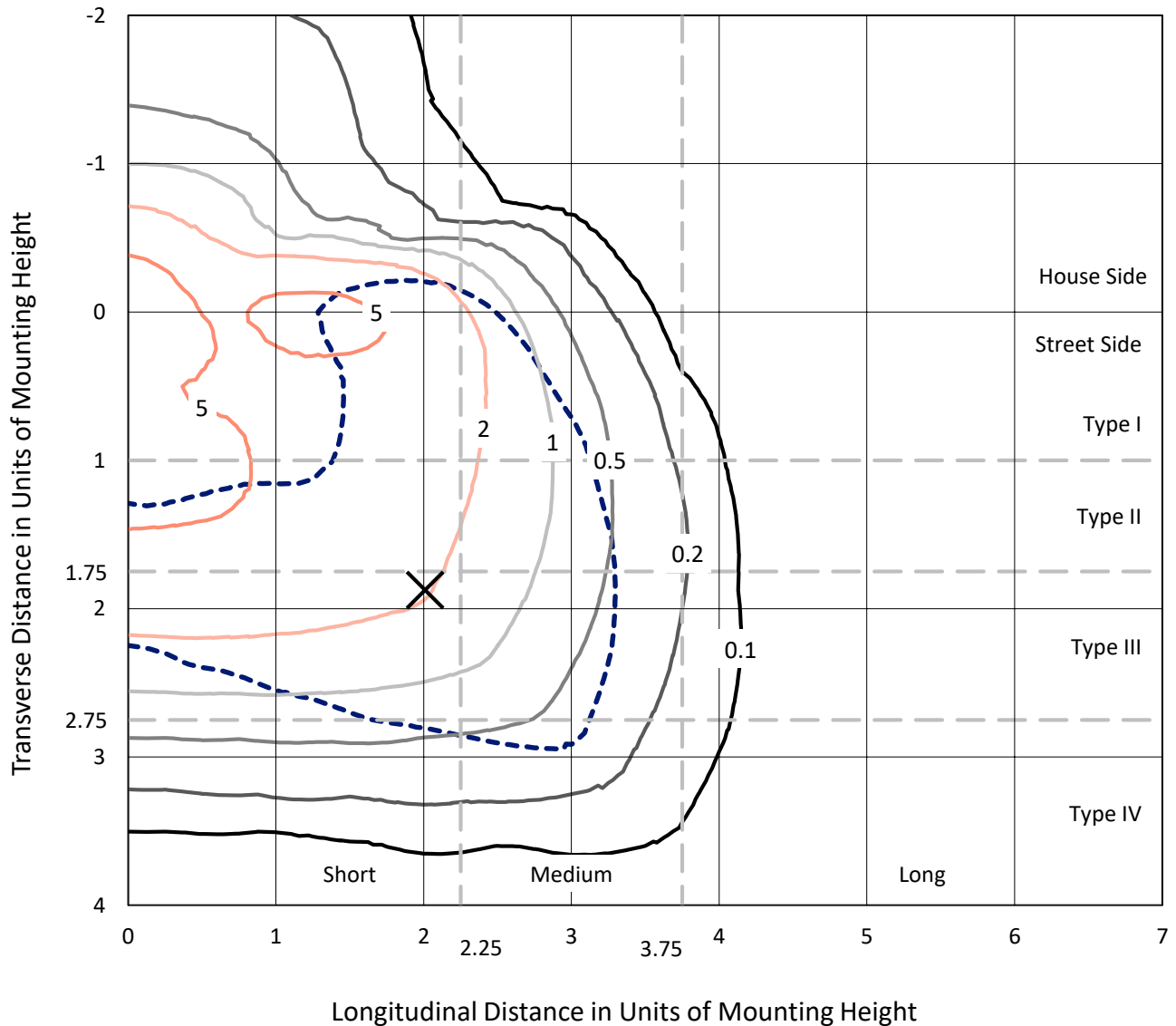
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

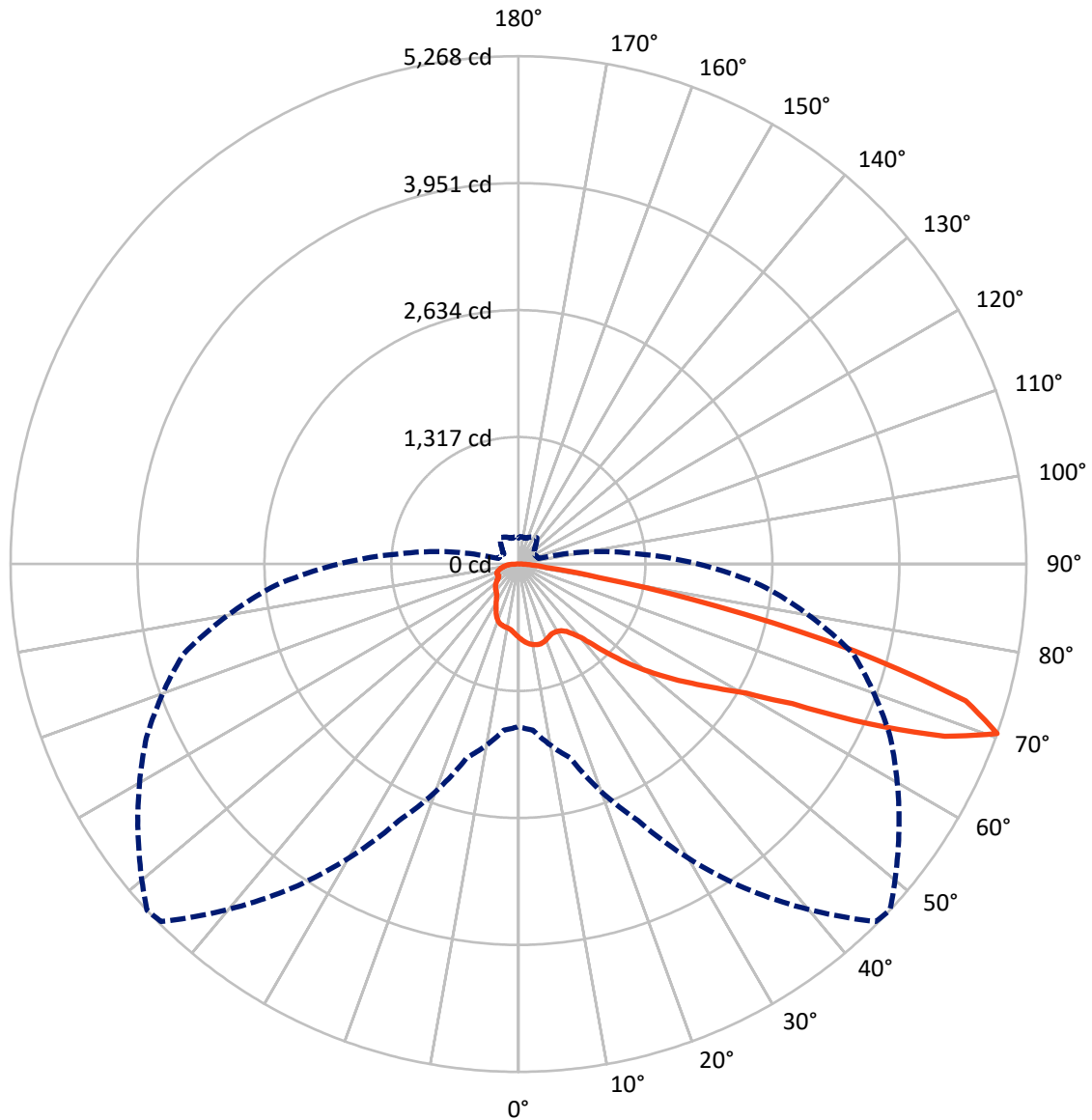
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1369.9	0.0	1369.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5196.6	0.0	5196.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	6566.5	0.0	6566.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.1
10°-20°	214.2	3.3
20°-30°	316.3	4.8
30°-40°	459.7	7.0
40°-50°	827.3	12.6
50°-60°	1433.2	21.8
60°-70°	2045.6	31.2
70°-80°	1050.1	16.0
80°-90°	147.0	2.2
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°	6566.5	100.0
0°-180°	6566.5	100.0

Coefficient of Utilization



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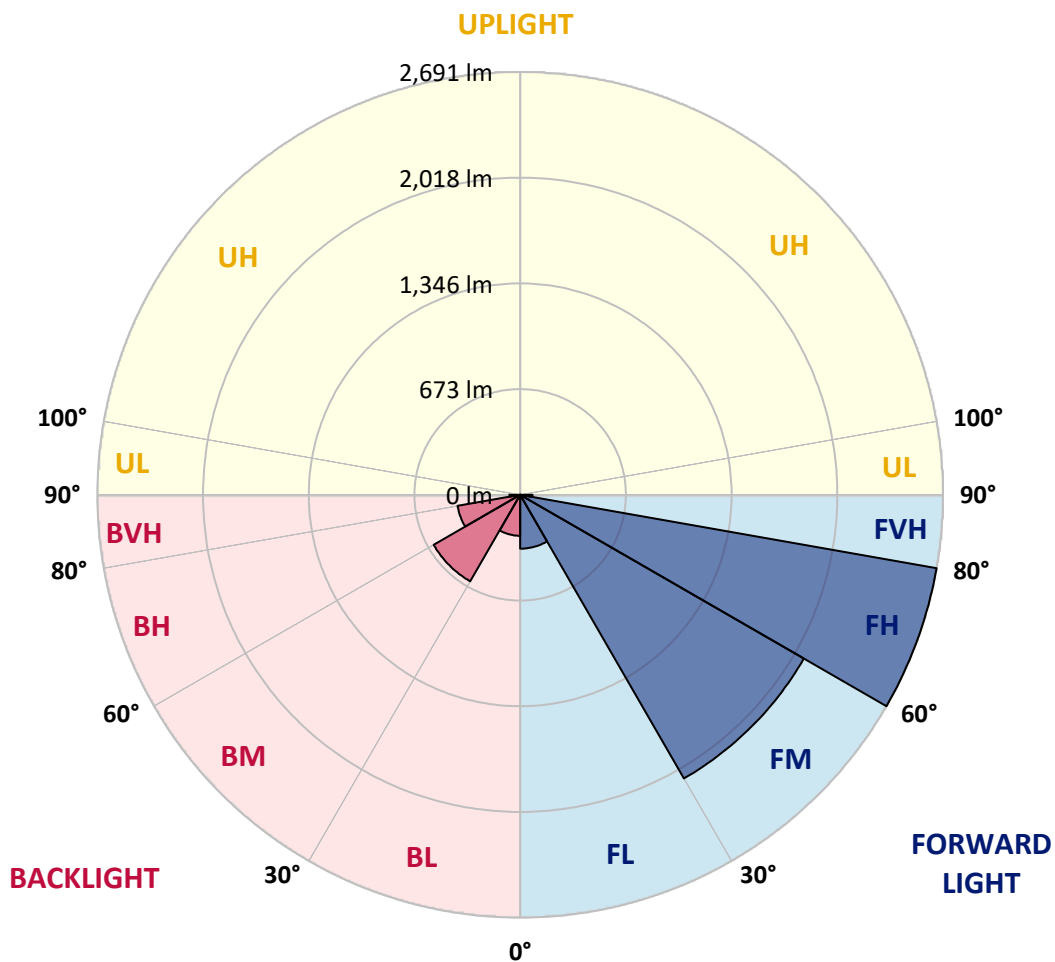
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.6	5.2			
FM	(30°-60°)	2084.4	31.7			
FH	(60°-80°)	2691.1	41.0			G2/5000
FVH	(80°-90°)	78.4	1.2			G1/100
BL	(0°-30°)	260.8	4.0	B1/500		
BM	(30°-60°)	635.9	9.7	B1/1000		
BH	(60°-80°)	404.6	6.2	B1/500		G1/500
BVH	(80°-90°)	68.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	806.7	805.0	804.3	803.2	801.5	793.6	791.9	786.2	778.3	769.9	761.3
5°	859.7	859.4	855.8	849.5	839.2	821.6	817.5	803.5	784.6	766.4	748.2
7.5°	906.3	903.5	896.7	883.9	866.1	842.1	836.4	816.8	791.0	766.0	741.5
10°	940.5	938.9	924.3	906.7	883.4	856.8	850.0	828.4	799.9	768.3	737.6
12.5°	960.0	956.8	939.8	918.8	891.0	865.2	858.3	836.4	804.3	768.3	732.2
15°	958.7	956.4	939.5	916.5	888.4	865.8	859.7	837.6	803.5	765.2	725.2
17.5°	933.2	934.0	919.8	897.0	874.1	856.8	851.3	830.9	797.0	758.7	716.8
20°	888.4	892.8	883.4	863.1	850.4	838.6	835.1	817.8	787.1	749.4	707.9
22.5°	843.7	847.9	844.0	827.1	825.1	818.2	816.2	803.8	778.6	743.7	702.5
25°	810.8	814.6	814.0	799.3	805.0	804.7	803.2	797.0	776.7	743.7	703.4
27.5°	801.9	803.2	801.9	788.5	796.4	802.8	801.5	800.6	782.4	753.1	715.6
30°	832.5	830.6	820.6	793.6	800.9	809.8	808.5	809.2	799.6	777.3	742.8
32.5°	954.8	946.3	914.9	838.6	819.1	824.0	824.6	835.1	836.7	814.6	784.9
35°	1137.9	1128.3	1087.7	959.3	875.6	859.0	859.0	875.0	884.6	868.3	850.4
37.5°	1331.9	1321.3	1299.5	1126.8	994.5	920.1	918.5	929.7	943.4	947.2	951.6
40°	1552.2	1541.1	1547.1	1314.6	1160.4	1025.8	1003.1	995.2	1032.2	1056.7	1092.6
42.5°	1793.5	1788.3	1790.5	1523.8	1349.2	1184.0	1151.7	1110.4	1155.2	1198.9	1274.0
45°	2016.7	2021.2	2019.0	1747.8	1559.2	1376.8	1342.7	1262.8	1306.6	1381.7	1504.1
47.5°	2212.3	2193.7	2222.5	1992.5	1794.7	1592.9	1550.7	1443.7	1488.0	1580.7	1787.7
50°	2449.6	2447.1	2404.9	2318.9	2079.4	1809.8	1754.4	1630.5	1699.5	1828.2	2145.2
52.5°	2699.1	2652.9	2614.1	2572.9	2381.3	2032.1	1964.4	1816.8	1948.1	2110.1	2580.9
55°	2750.3	2729.6	2777.4	2846.8	2672.3	2263.1	2184.2	2050.4	2227.9	2432.1	3083.4
57.5°	2859.6	2859.2	2958.2	3081.8	2972.0	2508.0	2428.5	2332.3	2542.6	2801.1	3616.9
60°	2933.3	2954.1	3138.0	3378.0	3266.2	2791.1	2718.0	2658.0	2900.4	3213.5	4114.0
62.5°	2972.0	3000.0	3251.1	3498.2	3682.1	3262.4	3189.2	3102.6	3373.8	3665.8	4404.8
65°	2811.2	2866.5	3233.6	3602.0	4046.3	4026.2	3993.3	3841.2	3965.8	4023.3	4299.7
67.5°	2366.5	2423.2	2850.6	3505.1	4306.4	4762.8	4769.9	4510.1	4330.0	4053.9	3615.1
70°	1686.1	1730.5	2084.1	2938.7	4108.2	5244.3	5268.3	4818.5	4257.5	3595.1	2525.6
72.5°	800.6	827.7	1162.5	1912.6	3260.1	4805.0	4851.3	4424.9	3620.1	2661.8	1377.9
75°	294.2	302.5	392.9	813.7	1890.8	3543.5	3598.1	3171.9	2399.8	1325.1	524.9
77.5°	176.4	181.8	220.3	343.4	743.7	2025.3	2106.2	1725.1	1048.8	493.2	258.2
80°	123.4	127.2	158.1	213.7	351.4	771.8	843.7	704.0	417.8	312.2	187.8
82.5°	83.4	85.3	111.2	144.4	233.5	275.7	297.4	313.0	281.8	232.2	119.2
85°	54.6	56.6	75.4	95.2	148.6	142.5	145.7	184.3	205.7	157.8	66.1
87.5°	31.3	32.6	45.4	50.8	72.8	60.4	60.9	97.1	131.6	106.4	40.2
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°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	759.1	754.9	745.5	739.9	734.4	733.1	731.0	730.6	730.3	730.3	729.3
5°	742.1	735.1	720.7	712.7	706.1	705.4	705.0	706.7	707.2	707.9	707.0
7.5°	731.3	721.6	703.7	692.2	684.3	682.4	685.6	692.9	697.7	699.6	698.7
10°	724.5	712.7	691.9	679.5	672.8	671.8	676.0	684.6	694.6	698.3	698.0
12.5°	716.8	703.4	681.4	668.3	664.6	666.4	671.8	679.8	690.1	696.1	696.4
15°	709.2	693.6	670.9	659.4	657.7	660.4	665.4	671.5	679.5	685.6	686.2
17.5°	700.0	683.6	661.0	649.1	647.9	649.1	649.4	652.8	657.7	663.5	665.2
20°	690.1	673.5	649.8	638.0	632.2	627.1	621.3	622.0	623.6	629.4	630.7
22.5°	683.0	666.4	641.2	624.9	609.5	594.2	582.7	581.1	581.7	586.5	588.2
25°	683.6	666.1	638.9	610.8	577.2	552.7	537.3	534.9	534.5	538.0	540.2
27.5°	696.1	678.5	647.3	596.4	542.2	505.8	489.4	487.6	484.9	485.8	488.5
30°	724.0	707.6	667.3	581.7	504.1	459.7	442.8	440.9	437.4	435.7	437.7
32.5°	769.3	755.8	696.7	567.7	466.1	420.4	403.1	399.1	396.7	394.9	396.5
35°	844.7	838.9	736.1	552.3	432.5	390.0	374.4	367.9	364.8	368.3	370.9
37.5°	962.9	966.1	787.4	528.4	406.7	370.0	356.8	349.5	344.7	347.6	350.5
40°	1130.3	1132.5	844.3	494.5	384.3	358.2	344.0	337.4	330.6	325.5	325.3
42.5°	1350.0	1327.4	900.3	457.8	358.5	350.7	335.1	326.8	316.7	302.5	299.7
45°	1610.7	1531.2	942.7	415.6	329.4	341.9	325.3	313.7	297.7	282.4	280.8
47.5°	1911.1	1750.0	963.4	371.8	302.2	328.8	313.0	294.9	274.8	267.0	266.1
50°	2277.7	2009.8	973.4	329.4	278.6	311.5	295.5	274.1	257.2	255.5	254.6
52.5°	2695.3	2322.2	976.6	294.6	259.1	289.1	281.2	260.4	246.9	248.2	248.2
55°	3132.4	2644.8	933.2	269.4	241.3	266.1	271.5	254.9	243.7	248.9	250.7
57.5°	3533.6	2930.8	796.4	249.7	224.3	248.6	268.0	260.0	252.4	273.1	274.5
60°	3841.5	3099.6	594.8	232.2	211.9	242.4	277.3	279.4	281.5	330.9	337.7
62.5°	3906.0	3043.5	408.9	218.5	206.1	247.6	294.2	294.6	292.3	326.8	330.9
65°	3609.9	2688.0	297.4	210.9	201.2	256.9	308.5	301.9	287.3	313.3	305.7
67.5°	2866.9	2025.1	247.6	205.1	194.3	256.2	324.0	308.5	284.3	307.0	294.6
70°	1860.9	1224.5	220.3	200.3	186.0	244.0	332.9	308.0	276.0	285.6	270.9
72.5°	908.0	547.6	202.2	193.3	177.3	227.2	332.5	302.2	267.3	266.7	258.7
75°	355.2	250.7	185.6	182.7	162.6	207.9	323.6	293.9	257.2	246.9	244.0
77.5°	207.9	178.8	164.6	167.0	145.0	188.8	310.6	279.4	243.1	231.0	227.8
80°	151.5	133.9	140.3	144.4	123.9	169.7	293.0	262.0	227.5	233.5	229.0
82.5°	97.1	86.2	113.7	117.9	103.1	150.1	273.8	243.4	205.4	186.7	182.1
85°	49.5	54.6	84.6	89.8	79.5	123.4	250.4	218.8	180.5	155.2	157.8
87.5°	27.8	37.3	54.0	60.4	56.3	94.8	203.2	180.5	147.3	119.7	105.4
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)