Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P193995

Luminaire Tested: **GAN-AF-07-LED-U-T3-8030**

Issue Date: 3/3/2020

Report Generated By E9812814

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Test Information

Test Method:	LM-79-08
Report Number:	P193995
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-AF-07-LED-U-T3-8030
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34363 lumens
Efficiency:	N/A
Efficacy:	87.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short - Full Cutoff
BUG Rating:	B3 - U0 - G4

Input Watts (W):	391
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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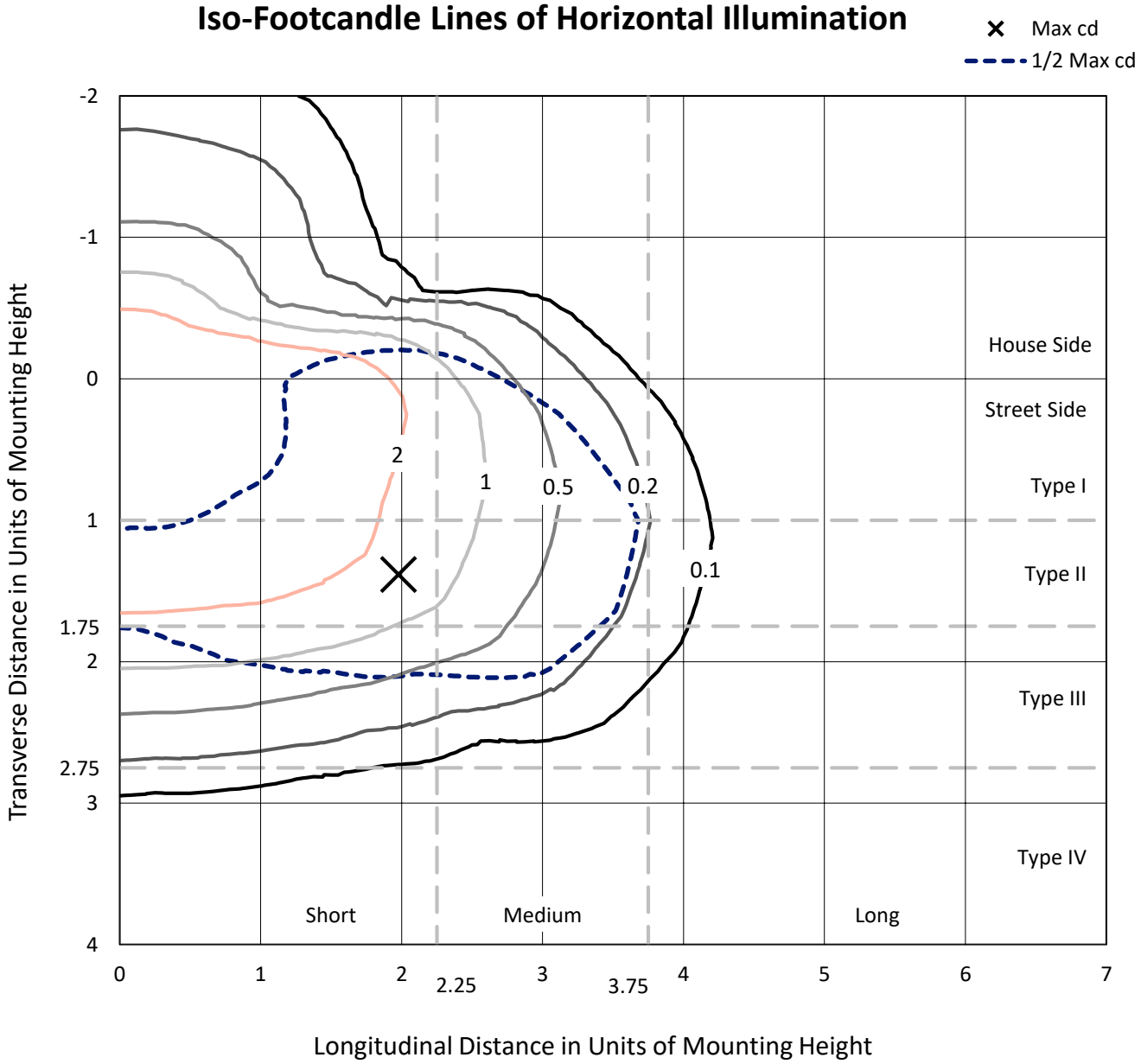
Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - Full Cutoff

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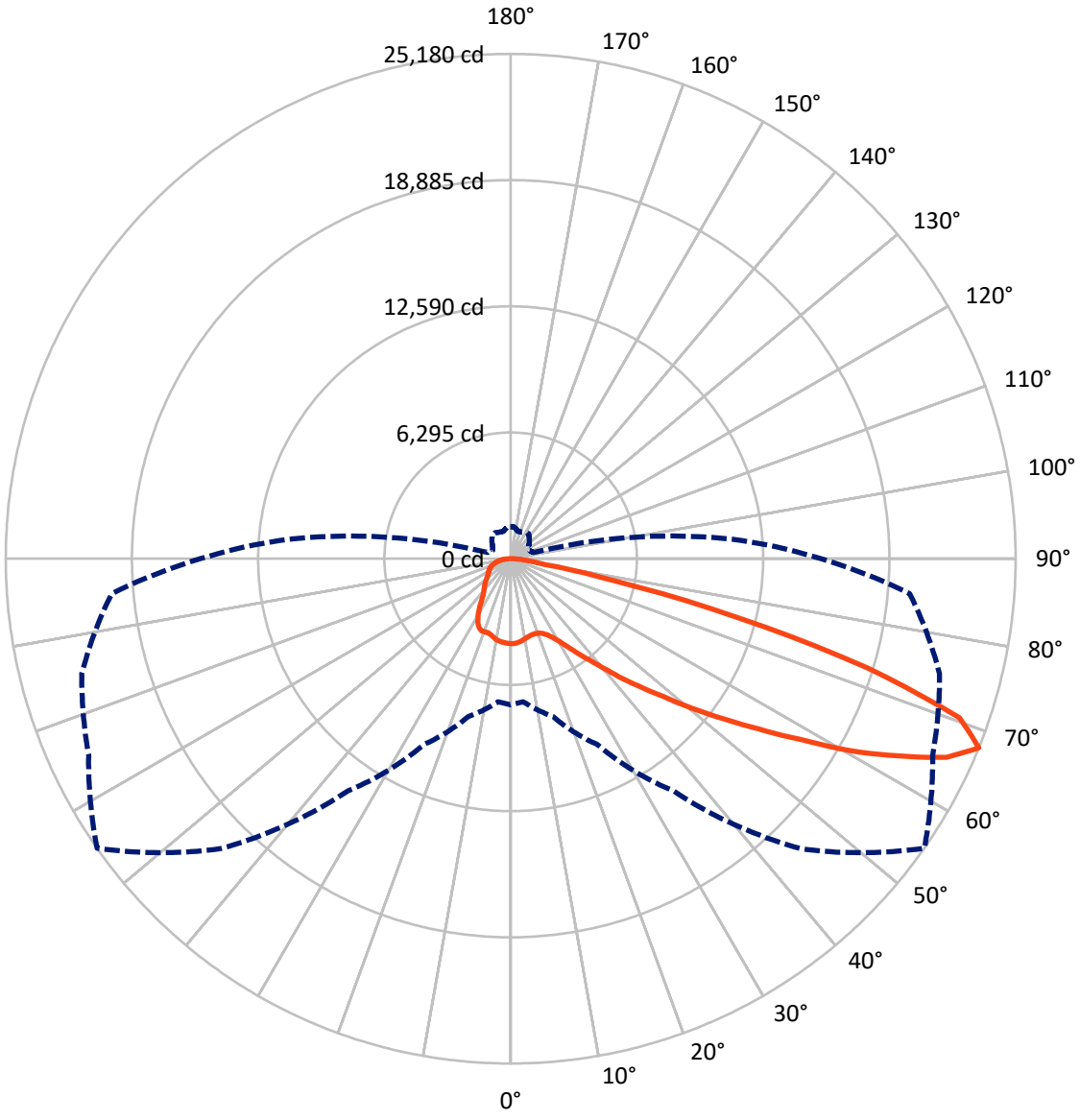
Luminous Intensity Polar Plot



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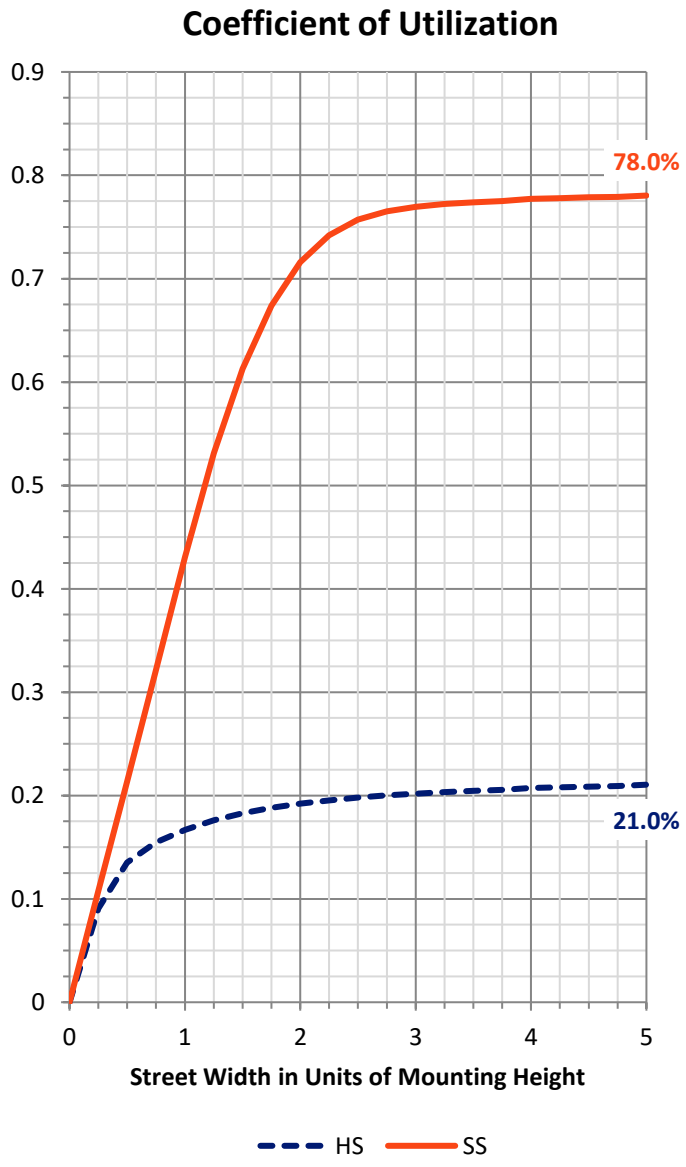
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7423.1	0.0	7423.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26939.9	0.0	26939.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	34363.0	0.0	34363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	1.2
10°-20°	1120.1	3.3
20°-30°	1876.4	5.5
30°-40°	3085.6	9.0
40°-50°	5194.0	15.1
50°-60°	8174.9	23.8
60°-70°	9755.9	28.4
70°-80°	4189.4	12.2
80°-90°	571.2	1.7
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°	34363.0	100.0
0°-180°	34363.0	100.0



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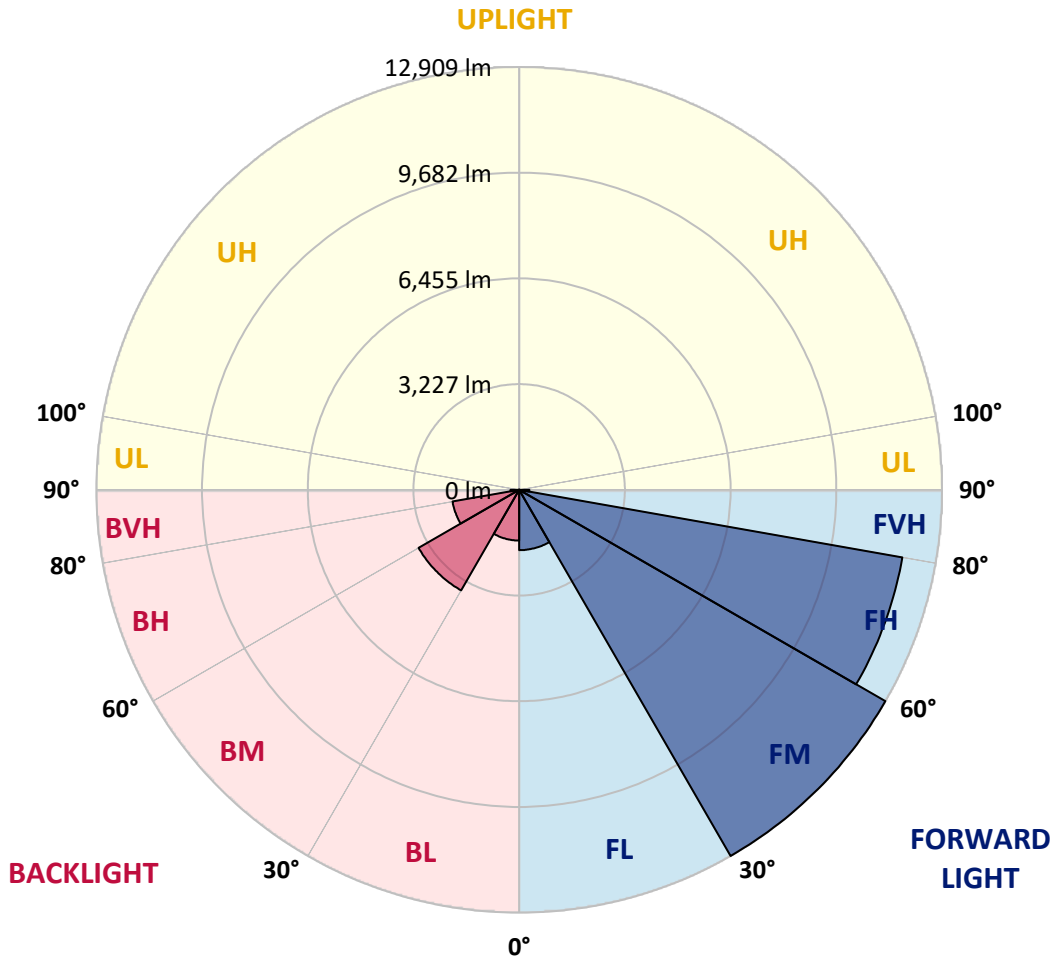
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1841.9	5.4			
FM	(30°-60°)	12909.3	37.6			
FH	(60°-80°)	11879.5	34.6			G4/12000
FVH	(80°-90°)	309.2	0.9			G3/500
BL	(0°-30°)	1550.1	4.5	B3/2500		
BM	(30°-60°)	3545.2	10.3	B3/5000		
BH	(60°-80°)	2065.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	262.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3
2.5°	4200.8	4202.5	4205.8	4219.1	4230.7	4227.4	4229.0	4222.4	4220.7	4210.8	4220.7
5°	4147.7	4152.7	4154.3	4175.9	4189.2	4192.5	4187.5	4179.2	4169.3	4159.3	4164.3
7.5°	4026.5	4039.8	4041.5	4071.4	4092.9	4121.2	4122.8	4124.5	4119.5	4112.9	4122.8
10°	3950.2	3953.5	3951.9	3973.4	3990.0	4021.6	4039.8	4071.4	4084.6	4088.0	4094.6
12.5°	3945.2	3941.9	3936.9	3936.9	3931.9	3945.2	3978.4	4023.2	4054.8	4064.7	4073.0
15°	3998.3	3996.7	3980.1	3955.2	3923.6	3913.7	3941.9	3991.7	4033.2	4054.8	4063.1
17.5°	4117.8	4107.9	4081.3	4024.9	3956.8	3930.3	3933.6	3975.1	4023.2	4051.4	4059.7
20°	4336.9	4336.9	4280.5	4174.3	4053.1	3990.0	3960.2	3985.1	4031.5	4069.7	4081.3
22.5°	4715.3	4718.7	4624.1	4449.8	4245.6	4111.2	4036.5	4031.5	4086.3	4129.4	4142.7
25°	5251.4	5238.2	5105.4	4856.4	4546.0	4323.6	4194.2	4164.3	4210.8	4258.9	4275.5
27.5°	5875.5	5827.4	5669.7	5369.3	4967.6	4642.3	4443.1	4395.0	4439.8	4494.6	4511.2
30°	6492.9	6443.1	6255.6	5927.0	5480.5	5068.9	4783.4	4705.4	4768.5	4846.5	4856.4
32.5°	7110.4	7110.4	6901.2	6517.8	6031.5	5578.4	5236.5	5143.6	5248.1	5342.7	5364.3
35°	7848.9	7852.3	7649.8	7188.4	6665.5	6185.9	5809.1	5741.1	5898.7	5965.1	6016.6
37.5°	8756.8	8775.1	8514.5	7956.8	7384.2	6879.6	6431.5	6338.6	6496.2	6677.2	6843.1
40°	9737.7	9761.0	9473.8	8786.7	8214.1	7686.3	7201.6	7034.0	7296.2	7641.5	7855.6
42.5°	10673.8	10793.3	10516.2	9809.1	9193.3	8647.3	8156.0	7912.0	8240.6	8761.8	8947.7
45°	12026.5	12112.8	11629.8	10989.2	10409.9	9799.1	9148.5	8891.3	9351.0	10008.3	10046.4
47.5°	12927.8	12863.0	12617.4	12219.1	11852.3	11281.3	10302.0	10019.9	10630.7	11404.1	11190.0
50°	13407.4	13427.4	13394.2	13417.4	13430.7	13072.2	11716.2	11329.4	12058.1	12992.5	12499.6
52.5°	13855.6	13722.8	13832.3	14376.7	15034.0	14901.2	13254.7	12851.4	13588.3	14755.1	13883.8
55°	13845.6	13643.1	14000.0	14961.0	16386.7	16539.4	14982.5	14517.8	15206.6	16645.6	15351.0
57.5°	13356.0	13365.9	13915.3	15173.4	17329.4	18079.6	16987.5	16290.4	16922.8	18560.9	16690.4
60°	12682.1	12773.4	13565.1	15138.5	18084.6	19342.7	19447.3	18200.8	18604.1	20302.0	17799.1
62.5°	11595.0	11691.3	12783.4	14776.7	17970.1	20559.3	21671.3	20368.4	20361.8	21357.6	18124.4
65°	9880.5	9852.3	10999.1	13424.0	17009.1	21458.9	23880.4	22242.3	21686.2	21374.2	17470.5
67.5°	7286.3	7160.1	8144.4	10224.0	14137.7	20451.4	25180.0	23218.2	22137.7	19968.4	15472.2
70°	3780.9	3654.8	4451.4	5970.1	9297.9	15961.8	23741.0	22713.6	21140.2	16738.5	12121.1
72.5°	1616.6	1595.0	1918.7	2619.1	4497.9	9206.6	18615.7	19659.7	18139.4	12471.3	8333.6
75°	1087.1	1080.5	1201.7	1427.4	2023.2	3736.1	11649.8	13955.1	13271.3	7732.8	4687.1
77.5°	853.1	844.8	916.2	1025.7	1311.2	1473.9	5170.1	7492.1	6934.4	3366.0	2051.4
80°	667.2	660.6	705.4	765.1	942.7	929.5	1701.2	2980.9	2307.0	1289.6	997.5
82.5°	526.1	526.1	562.7	564.3	668.9	634.0	888.0	1312.9	1151.9	751.9	610.8
85°	481.3	481.3	519.5	421.6	436.5	400.0	551.0	778.4	730.3	308.7	265.6
87.5°	242.3	235.7	436.5	373.4	237.3	212.4	268.9	376.8	405.0	171.0	132.8
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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	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3	4237.3
2.5°	4217.4	4215.8	4219.1	4220.7	4234.0	4252.3	4260.6	4272.2	4278.8	4275.5
5°	4167.6	4170.9	4184.2	4194.2	4217.4	4247.3	4263.9	4277.2	4288.8	4283.8
7.5°	4126.1	4134.4	4154.3	4162.6	4175.9	4184.2	4182.6	4187.5	4197.5	4185.9
10°	4102.9	4112.9	4127.8	4116.2	4084.6	4039.8	3998.3	3976.8	3983.4	3975.1
12.5°	4079.7	4092.9	4081.3	4026.5	3938.6	3880.5	3849.0	3852.3	3867.2	3870.5
15°	4066.4	4071.4	4021.6	3918.7	3829.0	3820.7	3837.3	3834.0	3835.7	3835.7
17.5°	4066.4	4053.1	3960.2	3857.3	3819.1	3804.1	3752.7	3688.0	3659.7	3649.8
20°	4088.0	4053.1	3940.2	3872.2	3789.2	3661.4	3525.3	3405.8	3352.7	3337.8
22.5°	4152.7	4092.9	3996.7	3878.8	3643.1	3429.0	3213.3	3070.5	2974.3	2957.7
25°	4283.8	4217.4	4107.9	3790.9	3410.8	3105.4	2859.7	2700.4	2604.1	2590.9
27.5°	4512.9	4469.7	4167.6	3596.7	3102.1	2775.1	2547.7	2424.9	2353.5	2348.5
30°	4858.1	4836.5	4137.7	3309.5	2722.0	2454.8	2345.2	2273.9	2220.7	2219.1
32.5°	5409.1	5234.8	4039.8	2959.3	2375.1	2227.4	2182.6	2139.4	2097.9	2097.9
35°	6117.8	5556.8	3853.9	2584.2	2164.3	2101.2	2044.8	1976.8	1922.0	1918.7
37.5°	6951.0	5756.0	3520.3	2282.2	2064.7	2016.6	1933.6	1832.4	1736.1	1719.5
40°	7792.5	5815.8	3050.6	2096.3	2001.7	1931.9	1830.7	1711.2	1618.3	1613.3
42.5°	8564.3	5701.2	2552.7	1968.5	1938.6	1845.6	1739.4	1633.2	1560.2	1558.5
45°	9211.6	5404.1	2134.4	1847.3	1872.2	1767.6	1673.0	1586.7	1530.3	1518.7
47.5°	9820.7	4984.2	1840.7	1719.5	1805.8	1724.5	1644.8	1563.5	1508.7	1500.4
50°	10527.8	4531.1	1634.9	1595.0	1747.7	1709.5	1668.0	1583.4	1492.1	1482.2
52.5°	11384.2	4139.4	1473.9	1485.5	1702.9	1729.5	1727.8	1639.8	1480.5	1467.2
55°	12340.2	3704.6	1352.7	1395.8	1684.6	1766.0	1742.7	1692.9	1490.5	1470.5
57.5°	13281.3	3196.7	1268.0	1327.8	1658.1	1762.7	1671.4	1600.0	1513.7	1485.5
60°	13986.7	2514.5	1203.3	1268.0	1600.0	1707.9	1593.4	1498.8	1508.7	1487.1
62.5°	14033.2	1943.6	1125.3	1216.6	1512.0	1653.1	1541.9	1453.9	1530.3	1510.4
65°	13208.3	1468.9	1050.6	1155.2	1417.4	1618.3	1492.1	1429.0	1575.1	1553.5
67.5°	*11120.3*	*1181.7*	*987.5*	*1092.1*	*1322.8*	*1545.2*	*1447.3*	*1405.8*	*1614.9*	*1576.8*
70°	8028.2	1007.5	926.1	1015.8	1238.2	1462.2	1407.5	1364.3	1507.0	1447.3
72.5°	4942.7	873.0	856.4	914.5	1173.4	1375.9	1347.7	1286.3	1357.7	1309.5
75°	2468.0	756.8	778.4	814.9	1082.2	1278.0	1248.1	1186.7	1196.7	1186.7
77.5°	1181.7	647.3	687.1	715.4	964.3	1166.8	1135.3	1072.2	1060.6	1062.2
80°	748.5	541.1	579.3	599.2	861.4	1037.3	1005.8	942.7	1075.5	997.5
82.5°	468.0	439.8	449.8	486.3	750.2	902.9	861.4	805.0	969.3	766.8
85°	258.9	307.1	320.3	351.9	577.6	755.2	713.7	642.3	575.9	566.0
87.5°	154.4	182.6	187.6	210.8	388.4	546.1	483.0	458.1	380.1	378.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)