

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: P324964

Luminaire Tested: **GAN-SA0B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36794 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

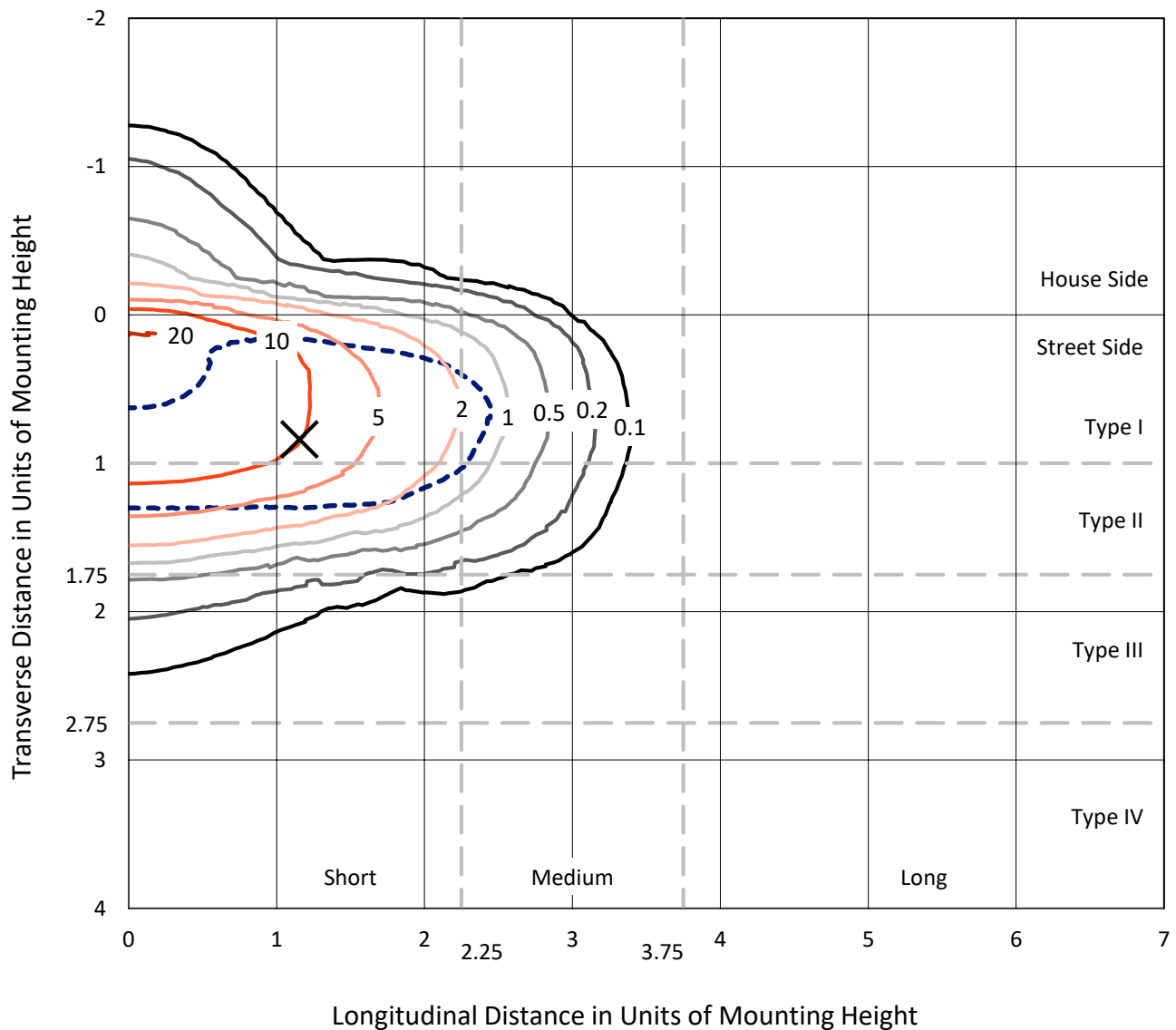
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

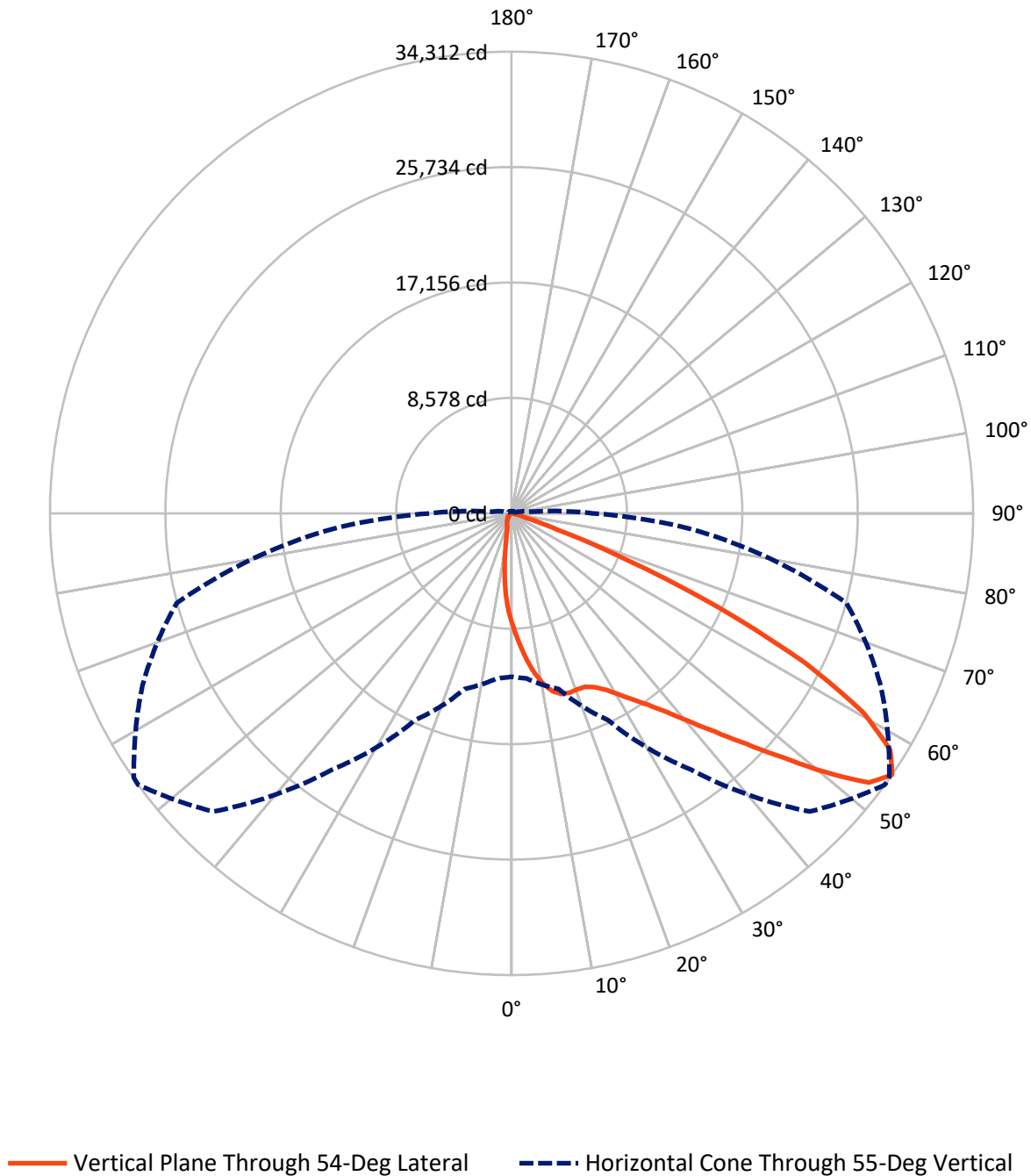
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.7	0.0	1835.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	34958.3	0.0	34958.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	36794.0	0.0	36794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.8	2.1
10°-20°	2081.2	5.7
20°-30°	3553.2	9.7
30°-40°	5702.3	15.5
40°-50°	9112.3	24.8
50°-60°	9764.1	26.5
60°-70°	5013.2	13.6
70°-80°	759.4	2.1
80°-90°	49.4	0.1
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°	36794.0	100.0
0°-180°	36794.0	100.0

Coefficient of Utilization



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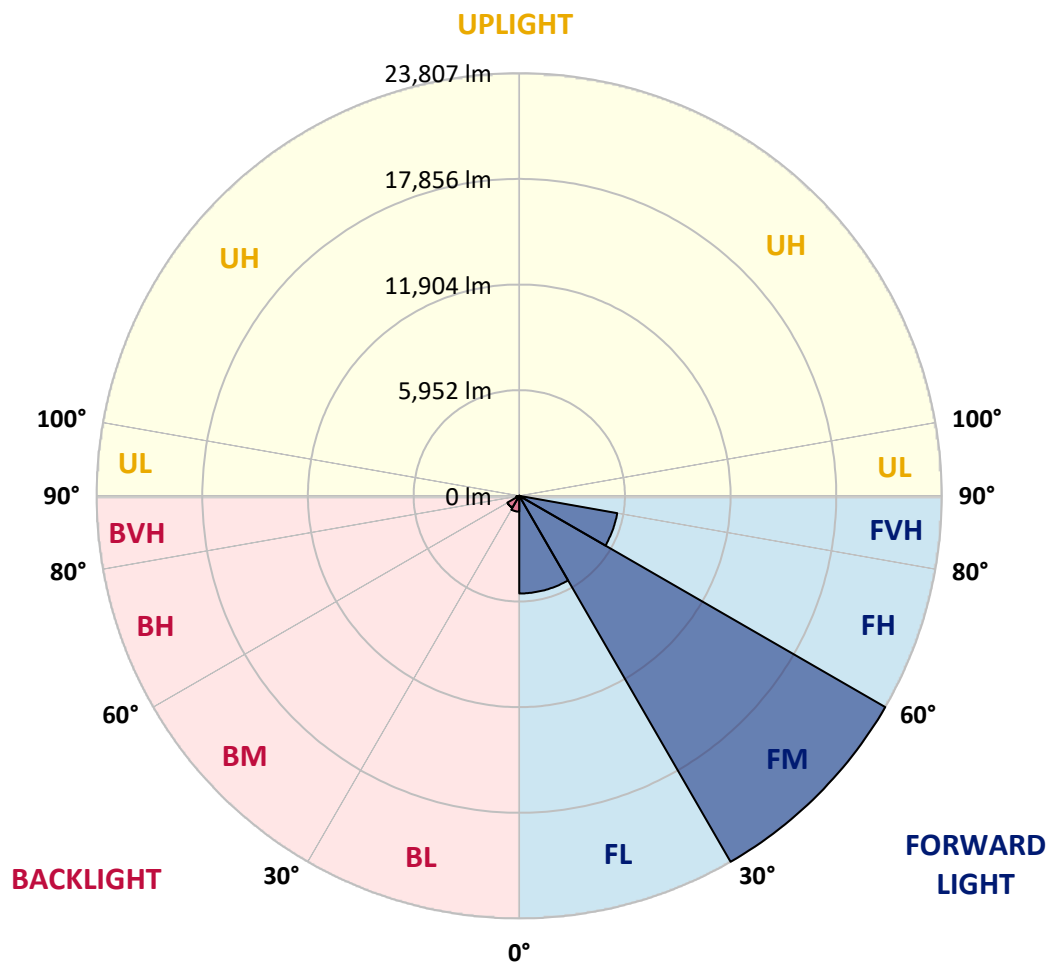
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5500.1	14.9			
FM	(30°-60°)	23807.3	64.7			
FH	(60°-80°)	5603.4	15.2			G3/7500
FVH	(80°-90°)	47.5	0.1			G1/100
BL	(0°-30°)	893.2	2.4	B2/1000		
BM	(30°-60°)	771.4	2.1	B1/1000		
BH	(60°-80°)	169.2	0.5	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4
2.5°	10341.0	10186.9	10191.6	10121.7	9865.9	9665.7	9457.5	9408.3	9084.1	8744.1	8416.8
5°	12128.6	12015.8	11988.8	11853.7	11497.8	11121.2	10717.6	10623.8	9989.8	9293.9	8609.0
7.5°	13047.0	13048.6	13026.3	12977.1	12754.6	12389.2	11896.6	11798.1	10935.3	9891.3	8809.2
10°	12780.1	12840.4	12964.4	13128.0	13298.1	13252.0	12881.7	12792.8	11855.3	10523.7	9031.7
12.5°	12157.2	12165.1	12303.4	12571.9	13061.3	13563.4	13569.8	13539.6	12734.0	11184.7	9276.4
15°	11847.3	11877.5	11928.4	12101.6	12565.5	13369.6	13944.8	13987.7	13539.6	11887.1	9537.0
17.5°	12050.7	12093.6	12050.7	12071.4	12339.9	13062.9	14009.9	14119.6	14243.5	12581.4	9783.3
20°	12602.1	12641.8	12565.5	12481.3	12533.8	12973.9	13963.8	14111.6	14794.9	13198.0	9989.8
22.5°	13345.7	13361.6	13245.6	13107.4	13069.2	13275.8	14002.0	14154.5	15236.6	13755.7	10120.1
25°	14164.0	14178.3	14033.8	13874.9	13784.3	13868.5	14315.0	14429.4	15625.9	14288.0	10194.8
27.5°	15055.5	15068.2	14887.0	14691.6	14586.7	14589.9	14831.4	14953.8	16040.6	14895.0	10255.2
30°	15997.7	15991.4	15824.5	15552.8	15419.3	15416.2	15575.0	15699.0	16641.2	15673.6	10337.8
32.5°	17056.0	17043.3	16806.5	16469.6	16318.7	16340.9	16482.3	16553.9	17386.5	16503.0	10485.6
35°	18449.5	18412.9	18055.4	17637.5	17359.5	17351.5	17470.7	17527.9	18336.7	17507.2	10731.9
37.5°	20257.7	20224.4	19739.7	19132.7	18741.9	18595.7	18737.1	18810.2	19692.1	18795.9	11127.5
40°	22040.6	22007.2	21719.6	21163.4	20561.2	20210.1	20321.3	20399.1	21384.3	20359.4	11626.5
42.5°	23270.4	23299.0	23399.1	23445.2	22881.1	22143.8	22194.7	22275.7	23162.4	22031.0	12196.9
45°	23594.6	23656.5	24222.2	25332.9	25544.2	24969.0	24436.7	24481.2	24969.0	23702.6	12767.3
47.5°	22620.5	22734.9	23826.5	25892.2	27681.4	28088.2	27080.8	27022.0	26702.6	25054.8	13172.5
50°	20407.1	20512.0	21926.1	24981.7	28329.7	31065.9	30249.2	30076.0	28223.2	25863.6	13315.5
52.5°	17203.7	17330.9	18479.7	22115.2	27107.8	32394.3	33249.1	33104.5	29338.7	25927.2	13339.4
55°	12149.2	12303.4	13518.9	16949.5	23235.5	31337.6	34312.1	34269.2	30265.0	25758.7	13390.2
57.5°	6827.8	6939.0	8249.9	10865.4	17017.8	27295.3	33201.5	33485.9	30824.4	25466.4	13466.5
60°	3031.7	3061.9	3740.4	5408.8	9962.8	20859.9	30021.9	30501.8	30344.5	25075.5	13595.2
62.5°	1681.1	1655.7	1655.7	2248.4	4329.9	12913.5	24481.2	25274.1	28296.3	24613.1	13601.6
65°	1317.3	1293.4	1225.1	1234.6	1649.3	5731.4	16952.7	18362.1	24406.5	23257.7	13143.9
67.5°	1117.0	1096.4	1028.1	1001.0	1024.9	1890.9	9314.5	10778.0	18519.4	19735.0	11384.9
70°	943.8	929.5	894.6	861.2	800.8	934.3	3564.1	4558.7	11412.0	13128.0	7771.6
72.5°	759.5	753.2	765.9	737.3	664.2	622.9	1218.7	1476.1	5126.0	5858.5	3201.8
75°	654.7	651.5	657.8	629.2	546.6	433.8	619.7	676.9	1446.0	1433.2	648.3
77.5°	425.8	430.6	545.0	532.3	470.3	289.2	321.0	346.4	438.6	328.9	197.0
80°	271.7	268.5	276.5	441.7	422.7	220.9	160.5	168.4	211.3	162.1	95.3
82.5°	165.3	162.1	181.1	206.6	212.9	154.1	98.5	100.1	131.9	104.9	50.8
85°	14.3	19.1	109.6	101.7	73.1	47.7	47.7	50.8	69.9	62.0	28.6
87.5°	0.0	0.0	19.1	28.6	15.9	17.5	17.5	19.1	27.0	27.0	14.3
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°	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4	8240.4
2.5°	8246.7	8081.5	7747.8	7426.8	7155.1	6892.9	6594.2	6298.7	6160.4	6104.8	6047.6
5°	8261.0	7921.0	7233.0	6540.2	5822.0	5175.3	4623.9	4058.2	3775.4	3651.4	3594.2
7.5°	8280.1	7762.1	6649.8	5486.7	4329.9	3452.8	2686.9	2194.4	1981.4	1948.1	1865.4
10°	8283.3	7569.8	5972.9	4323.6	2903.0	2081.5	1601.7	1347.4	1253.7	1237.8	1210.8
12.5°	8289.6	7342.6	5221.3	3201.8	1935.4	1391.9	1158.4	1074.1	1048.7	1047.1	1047.1
15°	8308.7	7104.3	4441.2	2307.2	1390.3	1102.7	1016.9	983.6	974.0	978.8	977.2
17.5°	8308.7	6823.0	3675.3	1719.3	1123.4	991.5	943.8	921.6	918.4	923.2	924.8
20°	8248.3	6481.4	2973.0	1337.9	996.3	920.0	877.1	856.5	848.5	851.7	853.3
22.5°	8103.7	6061.9	2400.9	1107.5	912.1	854.9	808.8	777.0	764.3	765.9	765.9
25°	7878.1	5564.6	1878.2	958.1	843.7	784.9	730.9	694.4	686.4	684.8	688.0
27.5°	7588.9	5014.8	1495.2	843.7	762.7	707.1	653.1	622.9	616.5	618.1	619.7
30°	7304.5	4444.3	1179.0	746.8	672.1	619.7	578.4	564.1	564.1	568.8	570.4
32.5°	7043.9	3896.1	932.7	662.6	591.1	543.4	519.6	518.0	525.9	529.1	530.7
35°	6819.8	3389.3	772.2	597.5	527.5	486.2	478.3	484.6	494.2	500.5	502.1
37.5°	6660.9	2936.4	675.3	543.4	478.3	444.9	443.3	456.0	468.7	483.0	486.2
40°	6594.2	2553.5	608.6	495.8	438.6	413.1	408.4	425.8	449.7	470.3	473.5
42.5°	6538.6	2240.4	551.4	449.7	406.8	370.2	368.6	390.9	419.5	440.1	444.9
45°	6490.9	1989.4	498.9	400.4	365.5	317.8	322.6	351.2	373.4	395.7	400.4
47.5°	6392.4	1782.8	441.7	348.0	301.9	271.7	281.2	306.7	324.1	357.5	362.3
50°	6216.0	1614.4	382.9	284.4	246.3	235.2	249.5	266.9	289.2	317.8	321.0
52.5°	6096.9	1487.3	332.1	238.3	203.4	206.6	220.9	227.2	239.9	251.1	247.9
55°	6028.5	1417.4	290.8	206.6	173.2	182.7	185.9	178.0	171.6	160.5	155.7
57.5°	6020.6	1353.8	259.0	179.6	152.5	157.3	146.2	119.2	96.9	84.2	81.0
60°	6007.9	1275.9	233.6	151.0	135.1	128.7	104.9	65.1	46.1	42.9	42.9
62.5°	5869.6	1155.2	214.5	127.1	114.4	96.9	60.4	30.2	25.4	27.0	27.0
65°	5429.5	986.7	195.4	103.3	90.6	69.9	30.2	17.5	9.5	11.1	11.1
67.5°	4615.9	786.5	174.8	79.4	68.3	44.5	17.5	7.9	0.0	0.0	0.0
70°	3090.5	487.8	147.8	55.6	44.5	27.0	12.7	1.6	0.0	0.0	0.0
72.5°	1185.4	263.8	119.2	33.4	28.6	19.1	7.9	0.0	0.0	0.0	0.0
75°	266.9	173.2	82.6	23.8	20.7	12.7	3.2	0.0	0.0	0.0	0.0
77.5°	101.7	125.5	47.7	15.9	14.3	7.9	0.0	0.0	0.0	0.0	0.0
80°	49.3	74.7	22.2	9.5	7.9	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	28.6	9.5	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	14.3	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.8	1.6	1.6	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)