

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: P322344

Luminaire Tested: **GAN-SA0D-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55966 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

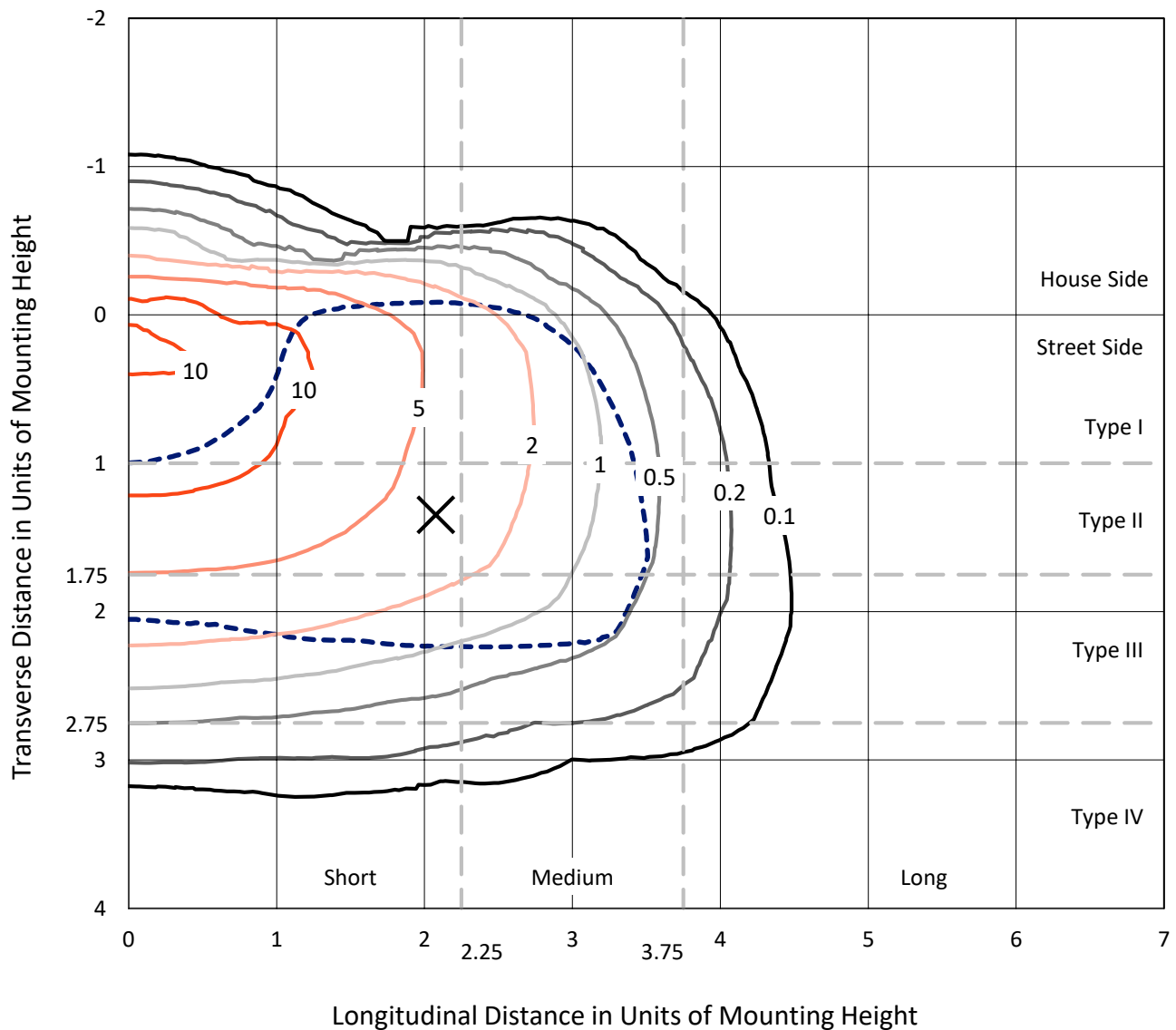


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Iso-Footcandle Lines of Horizontal Illumination

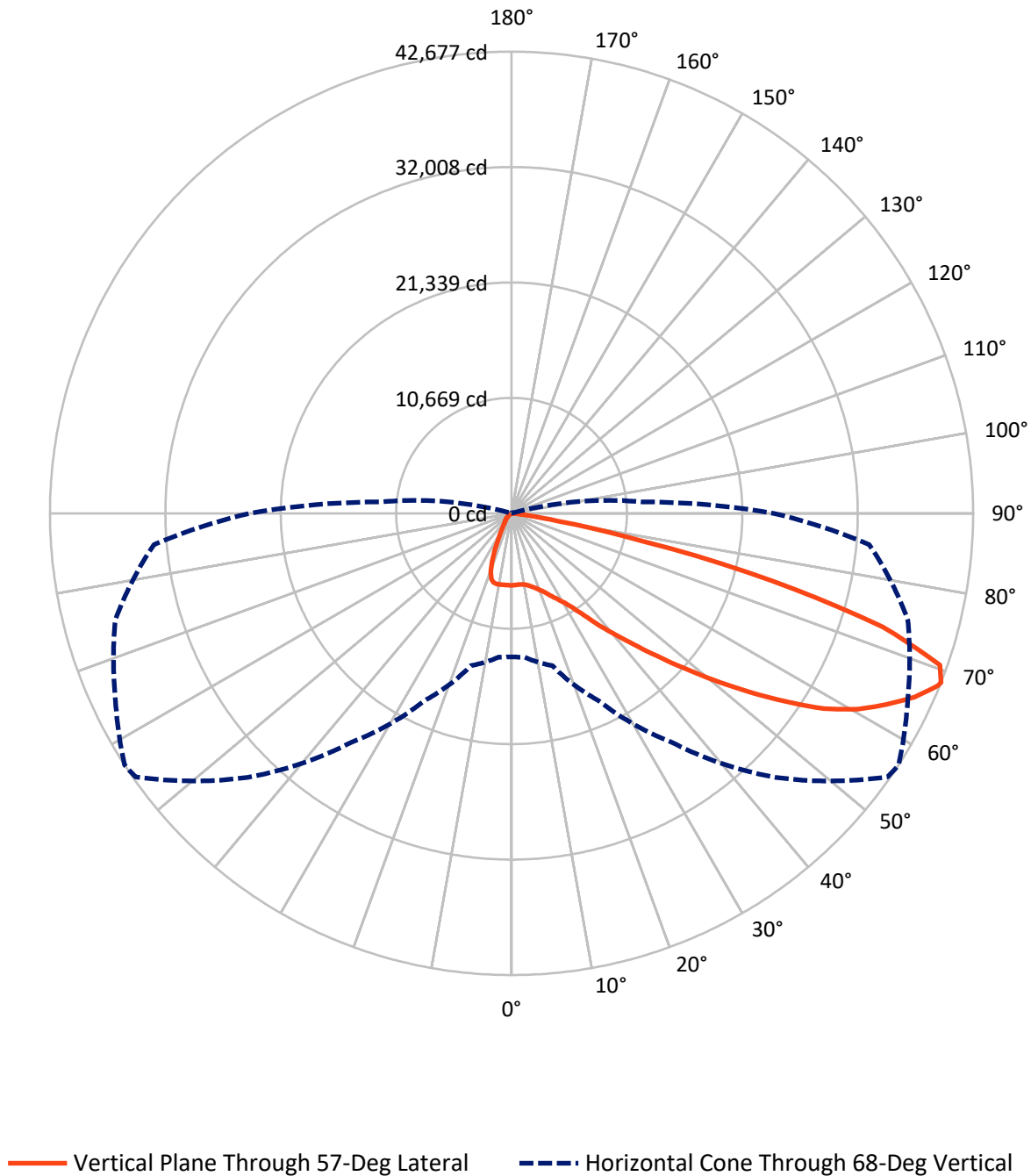
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6137.0	0.0	6137.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	49829.0	0.0	49829.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	55966.0	0.0	55966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.4	1.1
10°-20°	1724.6	3.1
20°-30°	2975.1	5.3
30°-40°	5134.9	9.2
40°-50°	8783.4	15.7
50°-60°	14052.6	25.1
60°-70°	16236.3	29.0
70°-80°	6204.1	11.1
80°-90°	232.6	0.4
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°	55966.0	100.0
0°-180°	55966.0	100.0

Coefficient of Utilization



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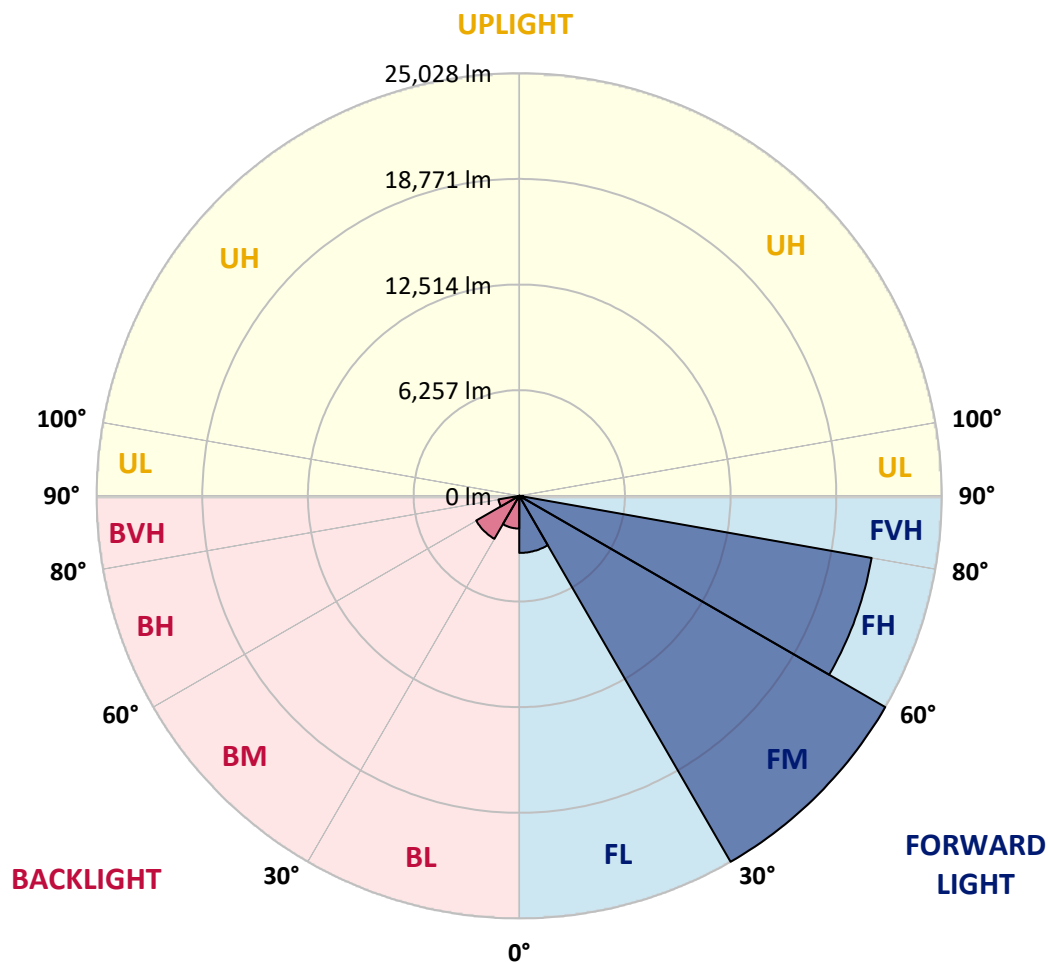
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.6	6.0			
FM	(30°-60°)	25027.5	44.7			
FH	(60°-80°)	21190.5	37.9			G5
FVH	(80°-90°)	228.3	0.4			G3/500
BL	(0°-30°)	1939.5	3.5	B3/2500		
BM	(30°-60°)	2943.4	5.3	B3/5000		
BH	(60°-80°)	1249.8	2.2	B3/2500		G3/2500
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
2.5°	6494.1	6523.2	6544.4	6557.6	6573.5	6607.9	6618.5	6634.4	6642.3	6642.3	6660.8
5°	6237.4	6269.2	6314.2	6351.2	6425.3	6520.6	6589.4	6615.8	6663.5	6705.8	6729.6
7.5°	5999.2	6036.3	6089.2	6176.5	6303.6	6457.1	6600.0	6637.0	6729.6	6819.6	6864.6
10°	5845.8	5874.9	5943.7	6068.0	6234.8	6449.1	6650.2	6695.2	6854.0	7004.8	7089.5
12.5°	5792.8	5819.3	5890.7	6031.0	6237.4	6488.8	6766.7	6832.8	7065.7	7285.4	7404.4
15°	5869.6	5874.9	5951.6	6083.9	6287.7	6586.7	6959.9	7039.2	7333.0	7618.8	7767.0
17.5°	6166.0	6142.1	6181.8	6240.1	6401.5	6716.4	7163.6	7282.7	7674.4	8010.5	8150.7
20°	6906.9	6906.9	6817.0	6658.2	6660.8	6917.5	7438.8	7573.8	8052.8	8441.8	8568.8
22.5°	8174.5	8150.7	7970.8	7581.7	7224.5	7264.2	7774.9	7949.6	8508.0	8923.4	8965.8
25°	9698.8	9669.7	9391.8	8844.0	8224.8	7825.2	8230.1	8431.2	9050.5	9418.3	9331.0
27.5°	11313.1	11289.3	11014.0	10333.9	9452.7	8719.7	8772.6	8963.1	9603.5	9966.1	9688.2
30°	12877.1	12885.0	12612.4	11913.8	10916.1	9860.2	9460.6	9571.8	10140.8	10508.6	10111.6
32.5°	14364.3	14374.9	14139.4	13358.7	12427.2	11186.1	10413.3	10384.2	10765.3	11127.8	10672.7
35°	15690.1	15716.6	15555.1	14949.1	13962.1	12662.7	11649.2	11580.4	11651.8	12062.0	11532.7
37.5°	16968.3	16984.2	16862.4	16351.7	15526.0	14284.9	13210.5	13112.6	12959.1	13274.0	12668.0
40°	18368.2	18328.5	18188.3	17725.1	17015.9	16076.5	14888.3	14718.9	14451.6	14732.1	14160.5
42.5°	19670.2	19625.2	19649.0	19125.1	18527.0	17918.3	16843.9	16552.8	16396.7	16719.5	15991.8
45°	21297.7	21273.9	21353.3	20898.1	20413.8	19971.9	19085.4	18767.8	18699.0	19077.4	18206.8
47.5°	22904.0	22962.2	23208.3	23015.2	22819.3	22430.3	21459.1	21316.2	21358.6	21816.4	20543.5
50°	24243.1	24311.9	24986.7	25209.0	25492.1	25264.5	24290.7	24203.4	24370.1	24782.9	23057.5
52.5°	25211.6	25351.9	26190.8	27214.9	28247.0	28400.5	27429.2	27349.9	27574.8	27638.3	24999.9
55°	25883.8	26008.2	26958.2	28831.8	30933.0	31594.6	30991.2	30684.2	30641.9	30014.7	27042.9
57.5°	26002.9	25989.6	27355.2	29877.1	33039.5	34746.4	34365.3	34063.6	33195.6	32211.2	29384.9
60°	25330.7	25407.4	26992.6	30239.7	34362.6	37130.7	37159.8	36768.2	35415.9	34346.8	31655.4
62.5°	23261.3	23573.5	25174.6	29289.6	34346.8	38091.3	39208.1	38909.0	37292.1	36096.0	33957.8
65°	19905.7	20016.9	21543.8	26034.6	32025.9	37689.1	41052.6	40941.4	38983.1	37794.9	35140.7
67.5°	14536.3	14295.5	15899.2	20501.1	27114.3	35344.4	42375.7	42516.0	40287.8	38144.3	33881.0
68°	13266.1	13337.5	14586.6	19133.0	25828.2	34516.1	42463.1	42677.4	40417.5	37916.7	33193.0
70°	7907.2	8044.9	9159.0	13173.4	19649.0	29829.5	41521.0	42010.5	39644.7	35569.4	28710.1
72.5°	2019.2	2183.2	3236.5	5896.0	11223.1	21017.2	35050.7	35879.0	34420.9	28855.6	19381.7
75°	830.9	873.3	1156.4	1942.4	4181.2	9468.6	23102.5	24875.5	23862.0	17275.3	8759.4
77.5°	574.3	603.4	743.6	1077.1	1810.1	3210.0	11326.3	12607.1	11358.1	5896.0	1910.7
80°	412.8	436.6	531.9	717.2	1040.0	1145.9	3691.6	4268.5	3390.0	1294.1	473.7
82.5°	246.1	264.6	397.0	510.7	632.5	547.8	918.3	1042.7	981.8	643.1	211.7
85°	121.7	142.9	267.3	365.2	341.4	230.2	280.5	312.3	386.4	391.7	113.8
87.5°	7.9	15.9	156.1	219.6	95.3	52.9	82.0	100.6	137.6	193.2	47.6
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°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
2.5°	6668.8	6671.4	6652.9	6644.9	6650.2	6618.5	6605.2	6610.5	6610.5	6618.5	6605.2
5°	6734.9	6734.9	6703.2	6660.8	6637.0	6576.1	6536.4	6525.9	6517.9	6512.6	6502.0
7.5°	6877.8	6861.9	6806.4	6713.7	6634.4	6502.0	6401.5	6348.6	6322.1	6311.5	6303.6
10°	7108.1	7078.9	6986.3	6814.3	6631.7	6396.2	6176.5	6020.4	5890.7	5837.8	5806.1
12.5°	7417.7	7375.3	7219.2	6933.4	6613.2	6179.2	5702.8	5245.0	4819.0	4644.3	4557.0
15°	7774.9	7714.1	7468.0	7034.0	6504.7	5689.6	4654.9	3853.1	3262.9	3040.6	2945.4
17.5°	8137.5	8058.1	7685.0	7097.5	6179.2	4676.1	3265.6	2466.4	2072.1	1966.2	1929.2
20°	8502.7	8386.2	7872.8	7049.8	5443.5	3371.4	2154.1	1802.2	1688.4	1656.6	1646.0
22.5°	8849.3	8669.4	8042.2	6864.6	4310.9	2262.6	1704.2	1593.1	1556.0	1537.5	1532.2
25°	9151.0	8899.6	8190.4	6293.0	3051.2	1709.5	1534.9	1497.8	1450.2	1415.8	1418.4
27.5°	9434.2	9129.9	8280.4	5350.9	2035.0	1460.8	1421.1	1370.8	1283.5	1233.2	1233.2
30°	9775.6	9436.8	8346.5	4117.7	1497.8	1291.4	1259.7	1182.9	1063.8	997.7	997.7
32.5°	10288.9	9902.6	8304.2	2889.8	1241.1	1135.3	1061.2	955.3	825.7	762.1	759.5
35°	11074.9	10622.4	8002.5	1894.8	1095.6	987.1	868.0	738.3	624.5	571.6	569.0
37.5°	12133.4	11585.6	7325.1	1354.9	981.8	849.5	706.6	563.7	479.0	444.6	441.9
40°	13506.9	12705.0	6356.5	1098.2	875.9	717.2	545.1	436.6	378.4	352.0	354.6
42.5°	15155.6	13903.8	5194.8	947.4	772.7	590.1	426.1	344.0	307.0	288.5	283.2
45°	16986.8	15086.7	3977.4	844.2	669.5	476.3	333.4	272.6	243.5	232.9	232.9
47.5°	19000.7	16237.9	2911.0	754.2	558.4	367.8	267.3	222.3	198.5	190.5	187.9
50°	20829.3	17037.1	2098.5	658.9	457.8	291.1	217.0	185.2	169.4	158.8	158.8
52.5°	22353.6	17288.5	1545.5	555.7	370.5	232.9	180.0	158.8	142.9	135.0	135.0
55°	23695.3	17185.3	1148.5	457.8	299.0	190.5	153.5	135.0	121.7	113.8	113.8
57.5°	24981.4	16851.9	857.4	373.1	240.8	153.5	129.7	113.8	100.6	95.3	95.3
60°	26032.0	16296.1	637.8	301.7	193.2	124.4	108.5	92.6	82.0	74.1	74.1
62.5°	26884.1	15682.2	468.4	248.8	153.5	97.9	84.7	76.7	60.9	52.9	52.9
65°	26889.4	14663.3	352.0	206.4	119.1	76.7	63.5	60.9	39.7	31.8	29.1
67.5°	24944.3	12641.5	269.9	177.3	92.6	58.2	47.6	50.3	21.2	13.2	10.6
68°	24237.8	12128.1	254.0	174.7	87.3	55.6	45.0	50.3	18.5	10.6	7.9
70°	20435.0	9648.5	203.8	169.4	76.7	42.3	37.0	50.3	15.9	7.9	5.3
72.5°	13070.2	5599.6	150.8	135.0	58.2	31.8	23.8	45.0	15.9	5.3	2.6
75°	5562.6	1736.0	103.2	95.3	34.4	23.8	15.9	29.1	10.6	2.6	0.0
77.5°	1172.3	391.7	60.9	58.2	23.8	15.9	10.6	7.9	2.6	0.0	0.0
80°	301.7	113.8	31.8	29.1	13.2	7.9	5.3	0.0	0.0	0.0	0.0
82.5°	95.3	45.0	18.5	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.6	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	7.9	2.6	0.0	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)