

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: P322663

Luminaire Tested: **GAN-SA9D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49259 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

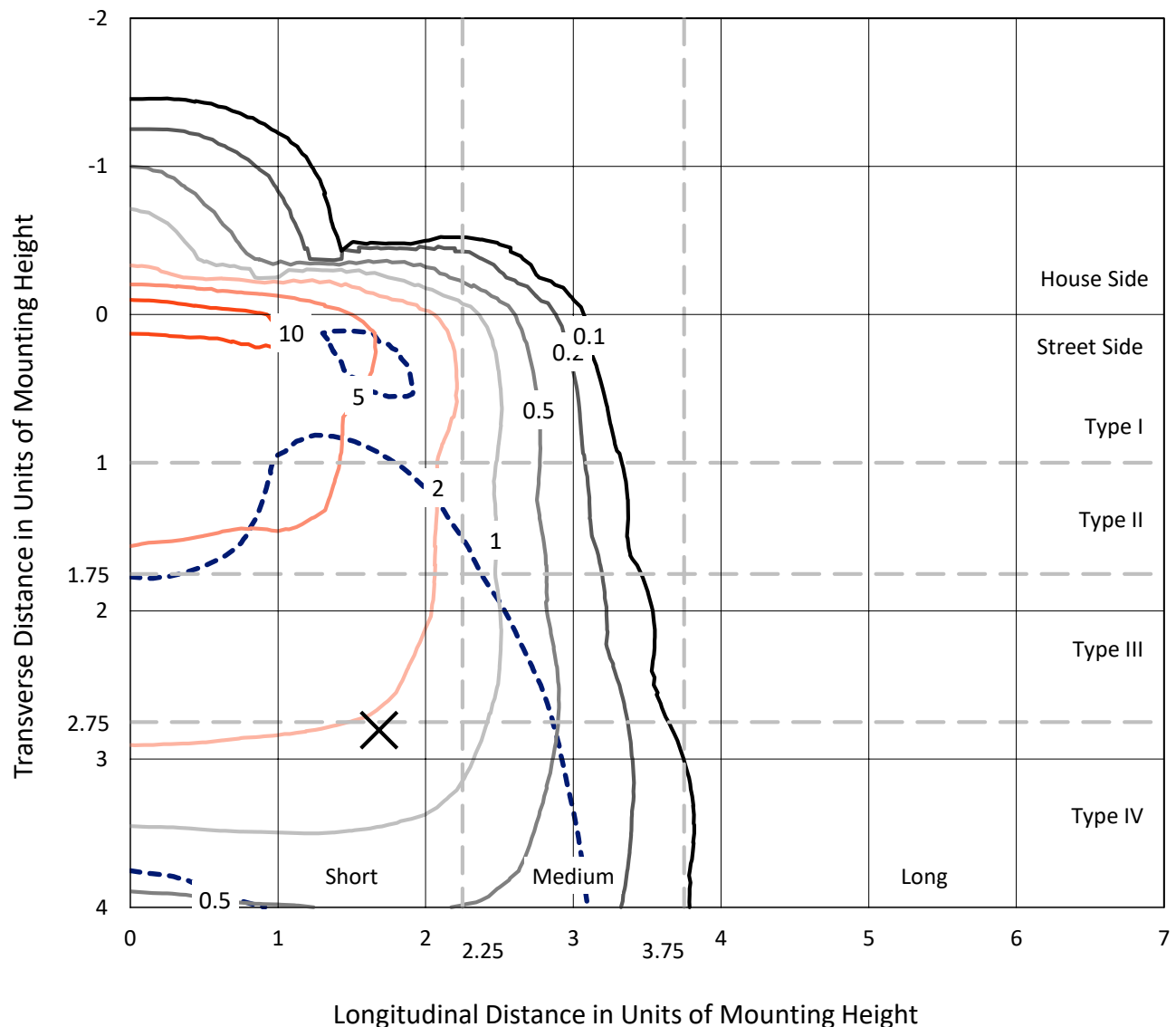
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

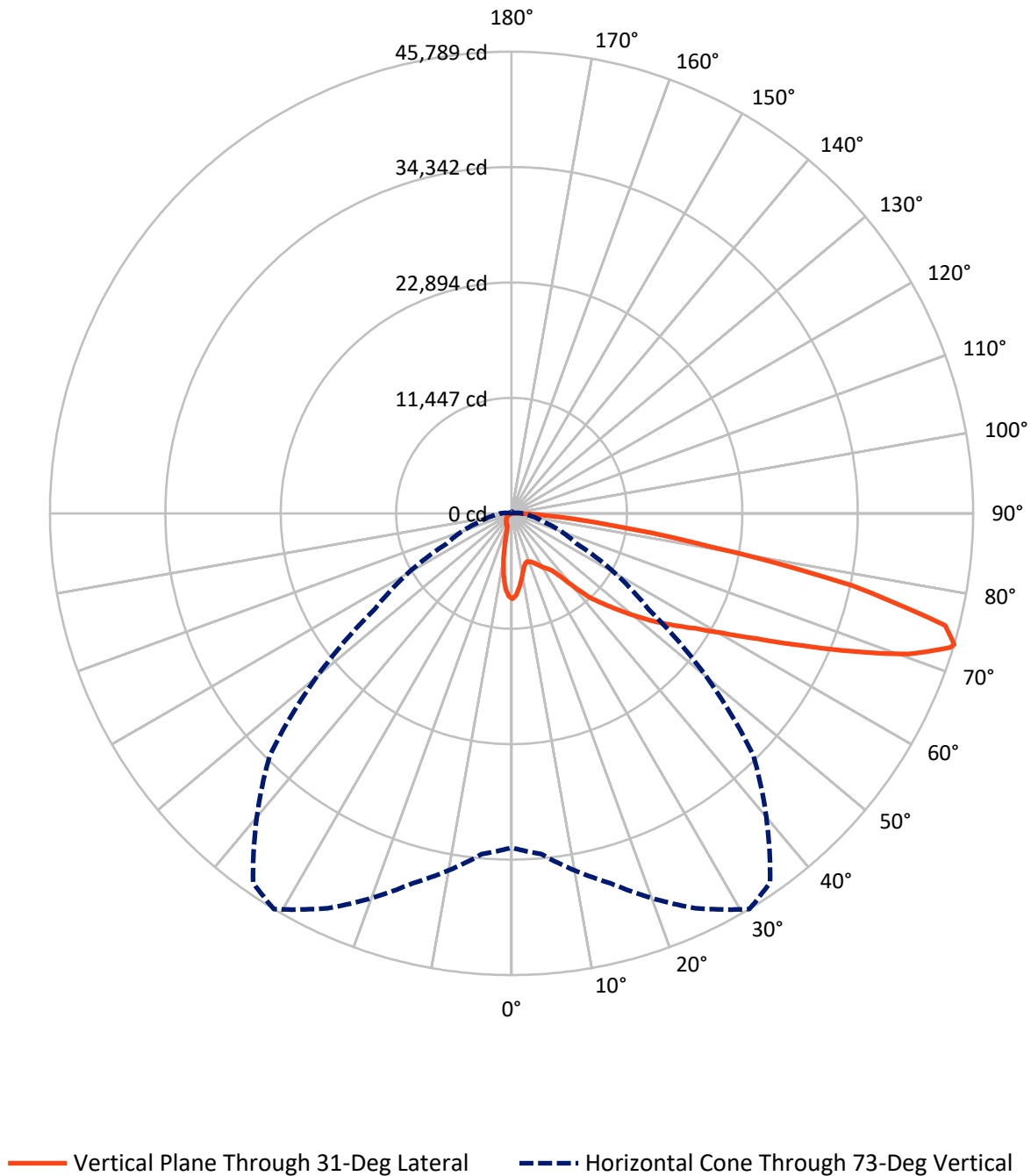
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4490.1	0.0	4490.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	44768.9	0.0	44768.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	49259.0	0.0	49259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.7	1.4
10°-20°	1525.8	3.1
20°-30°	2286.1	4.6
30°-40°	3637.1	7.4
40°-50°	6494.9	13.2
50°-60°	10078.2	20.5
60°-70°	13397.6	27.2
70°-80°	10077.7	20.5
80°-90°	1059.0	2.1
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°	49259.0	100.0
0°-180°	49259.0	100.0

Coefficient of Utilization



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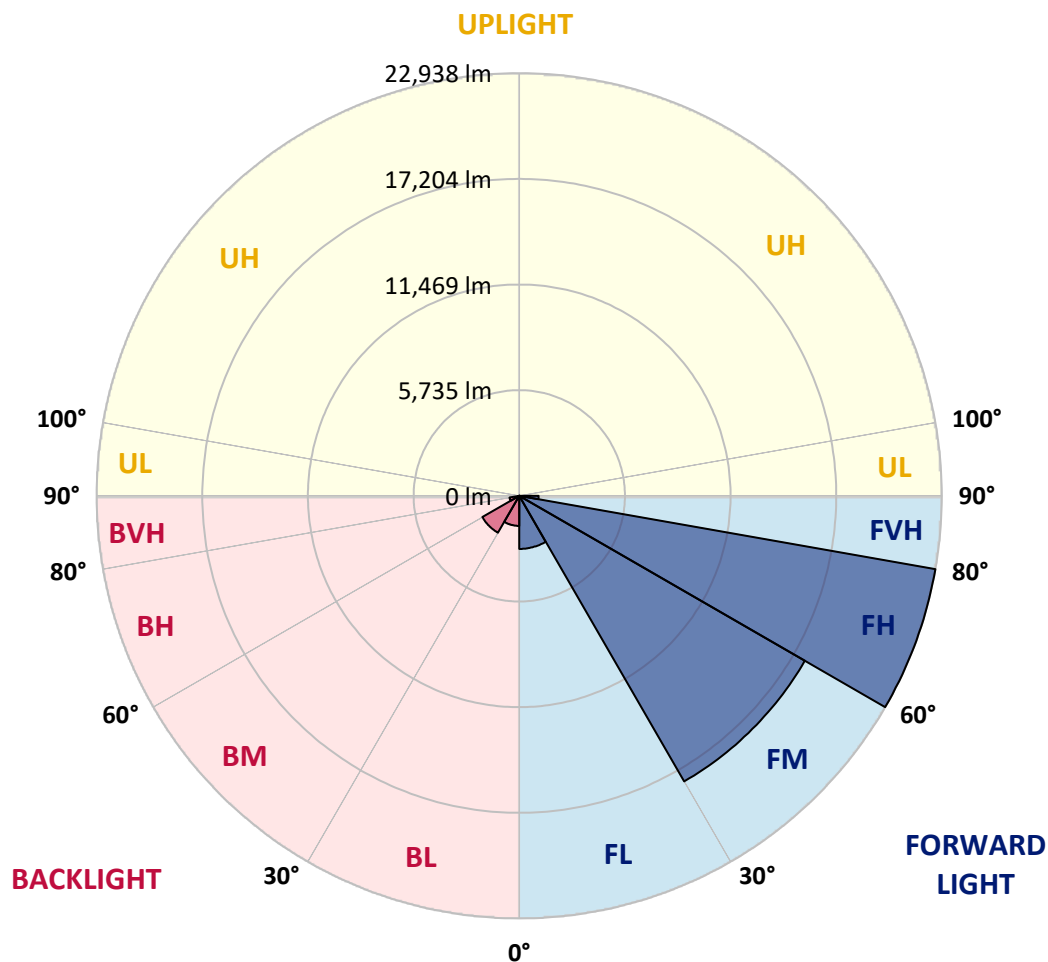
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.7	5.9			
FM	(30°-60°)	17899.0	36.3			
FH	(60°-80°)	22938.1	46.6			G5
FVH	(80°-90°)	1050.0	2.1			G5
BL	(0°-30°)	1632.8	3.3	B3/2500		
BM	(30°-60°)	2311.2	4.7	B2/2500		
BH	(60°-80°)	537.2	1.1	B2/1000		G2/1000
BVH	(80°-90°)	8.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1
2.5°	8031.6	8065.3	8101.5	8108.7	8169.0	8171.4	8258.2	8323.3	8388.3	8451.0	8472.7
5°	7207.2	7262.7	7327.7	7392.8	7520.6	7571.2	7783.3	8000.3	8207.6	8405.2	8501.6
7.5°	6327.4	6390.1	6481.7	6643.2	6785.4	6884.2	7219.3	7604.9	7990.6	8354.6	8564.3
10°	5524.7	5582.6	5679.0	5850.1	6069.5	6204.5	6655.2	7190.3	7756.8	8308.8	8658.3
12.5°	5013.7	5045.1	5098.1	5281.3	5478.9	5630.8	6161.1	6824.0	7564.0	8306.4	8810.2
15°	4919.7	4929.4	4886.0	4967.9	5122.2	5269.2	5806.8	6527.5	7416.9	8344.9	9007.8
17.5°	5069.2	5064.3	4919.7	4910.1	5033.0	5153.5	5633.2	6322.6	7313.3	8434.1	9263.3
20°	5295.7	5278.9	5028.2	4982.4	5112.5	5225.8	5621.1	6245.5	7274.7	8583.6	9574.3
22.5°	5597.0	5568.1	5175.2	5127.0	5266.8	5384.9	5770.6	6320.2	7308.5	8783.6	9935.8
25°	5970.7	5927.3	5428.3	5375.3	5517.5	5635.6	6038.2	6534.7	7409.7	9027.1	10393.8
27.5°	6392.5	6329.8	5833.3	5695.9	5857.4	5980.3	6394.9	6862.5	7568.8	9285.0	10955.5
30°	6790.2	6708.3	6259.9	6033.3	6231.0	6368.4	6780.6	7253.0	7824.3	9682.7	11724.4
32.5°	7190.3	7098.7	6640.8	6370.8	6549.2	6698.6	7178.3	7790.5	8304.0	10290.2	12746.4
35°	8111.1	8014.7	7453.1	7007.2	7004.7	7089.1	7735.1	8525.7	8937.9	11136.2	13966.1
37.5°	9661.0	9605.6	9070.5	8224.4	7997.8	7903.8	8494.4	9403.1	9849.1	12300.5	15342.5
40°	11358.0	11309.8	10709.6	9943.1	9598.4	9367.0	9583.9	10625.2	11136.2	13722.6	16747.7
42.5°	13274.3	13045.3	11975.1	11746.1	11437.5	11261.6	11066.3	12131.8	12717.5	15270.1	18141.0
45°	15014.6	14629.0	13240.6	12893.5	12823.5	12866.9	12975.4	14156.5	14496.4	17109.3	19529.4
47.5°	16051.1	15747.4	14682.0	14349.4	14330.1	14616.9	15436.5	16444.0	16268.1	18712.3	20751.5
50°	17037.0	16762.2	15877.6	15959.5	16048.7	16439.2	18230.2	18796.6	17885.5	20165.8	21872.3
52.5°	17834.9	17415.4	16952.6	17413.0	17851.7	18480.9	21113.1	20908.2	19032.8	21322.8	22831.7
55°	18295.3	18104.8	18329.0	18791.8	19616.2	20638.2	23834.4	22665.4	19871.7	22378.5	23470.5
57.5°	19982.6	19608.9	20054.9	20455.0	21530.1	22959.5	26165.3	23974.2	20476.7	23031.8	23617.5
60°	22024.2	21722.9	21985.6	22650.9	24102.0	25782.1	28344.4	25042.1	20792.5	23451.2	23236.7
62.5°	25273.5	24875.8	24711.8	25456.7	27380.2	29214.5	29997.9	25782.1	20722.6	23265.6	21930.2
65°	29626.7	29214.5	28481.8	29156.7	31603.3	32897.7	31846.8	25938.8	20240.5	21763.9	18627.9
67.5°	34086.1	33787.2	33160.4	34298.2	36506.1	36923.1	33801.6	25557.9	18688.2	17646.8	13161.0
70°	37031.6	36903.9	37311.2	39827.7	41797.1	41676.5	35595.0	23511.4	14566.3	10851.8	6510.6
72.5°	34908.0	35520.3	38528.5	43091.5	45497.1	44513.6	34674.2	18054.2	8325.7	4174.9	1882.6
73°	33148.4	33931.8	37981.3	43214.4	45788.7	44711.3	33900.4	16571.8	7096.3	3295.1	1427.0
75°	23060.7	24022.5	31444.2	40247.1	44424.4	42599.7	28257.6	10143.1	3287.8	1460.7	576.1
77.5°	11196.5	11907.6	17314.2	29079.6	34548.9	33283.4	17591.4	3779.6	1484.8	913.6	265.1
80°	4179.7	4647.3	7515.8	14800.1	19965.7	20488.8	7737.5	1429.4	988.3	735.2	135.0
82.5°	1094.3	1219.7	2772.0	6599.8	10232.3	10709.6	2439.4	720.7	723.1	605.0	82.0
85°	349.5	400.1	865.3	2962.4	4820.9	4232.7	636.4	349.5	525.5	450.8	45.8
87.5°	43.4	55.4	274.8	696.6	1063.0	590.6	98.8	103.6	224.2	250.7	26.5
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°	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1	8475.1
2.5°	8494.4	8482.3	8484.8	8422.1	8381.1	8299.1	8214.8	8176.2	8135.2	8118.4	8135.2
5°	8537.8	8516.1	8453.4	8260.6	8055.7	7790.5	7542.3	7354.3	7118.0	7053.0	7120.4
7.5°	8605.3	8561.9	8378.7	7985.8	7530.2	7024.0	6455.2	6040.6	5700.7	5481.3	5560.9
10°	8704.1	8622.1	8253.4	7585.7	6770.9	5874.2	5066.7	4437.6	3991.7	3808.5	3801.3
12.5°	8870.4	8716.2	8099.1	7065.0	5842.9	4647.3	3589.1	2907.0	2545.4	2311.6	2306.8
15°	9053.6	8827.0	7903.8	6440.7	4763.0	3328.8	2311.6	1793.4	1559.6	1484.8	1475.2
17.5°	9277.8	8954.8	7650.7	5671.8	3632.5	2205.6	1508.9	1359.5	1349.8	1342.6	1342.6
20°	9559.8	9106.6	7325.3	4792.0	2576.8	1472.8	1282.4	1292.0	1296.8	1287.2	1289.6
22.5°	9887.6	9260.9	6937.3	3847.1	1742.7	1231.7	1226.9	1239.0	1243.8	1239.0	1241.4
25°	10268.5	9439.3	6464.8	2856.4	1258.3	1169.1	1181.1	1198.0	1210.0	1210.0	1210.0
27.5°	10740.9	9656.2	5895.9	1993.4	1087.1	1104.0	1137.7	1169.1	1185.9	1190.8	1190.8
30°	11355.6	9926.2	5213.8	1366.7	988.3	1017.2	1079.9	1140.1	1171.5	1176.3	1178.7
32.5°	12131.8	10229.9	4423.2	1010.0	903.9	925.6	993.1	1094.3	1154.6	1164.2	1164.2
35°	13021.2	10581.8	3572.3	879.8	843.7	850.9	903.9	1019.6	1125.7	1152.2	1154.6
37.5°	13995.0	10928.9	2716.6	822.0	793.0	793.0	831.6	930.4	1055.8	1137.7	1147.4
40°	14903.8	11138.6	1904.2	776.2	747.2	747.2	781.0	853.3	971.4	1094.3	1120.9
42.5°	15742.6	11211.0	1325.7	732.8	703.8	711.1	740.0	797.9	887.0	1010.0	1034.1
45°	16605.5	11198.9	966.6	682.2	660.5	682.2	703.8	747.2	812.3	882.2	887.0
47.5°	17256.3	11097.7	766.5	633.9	619.5	648.4	667.7	696.6	732.8	728.0	728.0
50°	17866.2	10851.8	617.1	568.9	578.5	612.3	621.9	631.5	633.9	588.1	583.3
52.5°	18329.0	10468.5	494.1	499.0	537.5	571.3	561.6	547.2	523.1	467.6	458.0
55°	18483.3	9731.0	388.1	412.2	477.3	520.7	484.5	453.2	407.4	361.6	351.9
57.5°	18203.7	8778.8	315.8	320.6	402.5	438.7	397.7	361.6	310.9	272.4	265.1
60°	17610.7	7720.6	260.3	241.0	310.9	342.3	315.8	279.6	233.8	204.9	202.5
62.5°	16434.4	6592.6	214.5	188.0	236.2	262.7	245.9	219.4	180.8	161.5	159.1
65°	13961.3	5274.0	173.6	151.9	183.2	204.9	190.4	171.1	142.2	127.8	125.3
67.5°	9745.4	3565.0	142.2	125.3	144.6	161.5	149.4	139.8	113.3	110.9	113.3
70°	4700.4	1718.6	118.1	101.2	113.3	125.3	120.5	113.3	108.5	125.3	144.6
72.5°	1347.4	576.1	94.0	84.4	91.6	98.8	103.6	101.2	118.1	151.9	176.0
73°	1036.5	465.2	89.2	79.5	86.8	96.4	101.2	98.8	120.5	154.3	176.0
75°	443.5	224.2	67.5	65.1	72.3	84.4	89.2	89.2	120.5	156.7	168.7
77.5°	200.1	120.5	43.4	50.6	62.7	67.5	74.7	74.7	96.4	120.5	120.5
80°	113.3	65.1	33.7	38.6	45.8	45.8	45.8	41.0	43.4	48.2	53.0
82.5°	72.3	43.4	26.5	31.3	28.9	24.1	19.3	19.3	16.9	19.3	24.1
85°	41.0	24.1	24.1	19.3	12.1	9.6	12.1	9.6	2.4	0.0	2.4
87.5°	24.1	14.5	7.2	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)