

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: P324943

Luminaire Tested: **GAN-SA9D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324943
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-SA9D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 41744 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

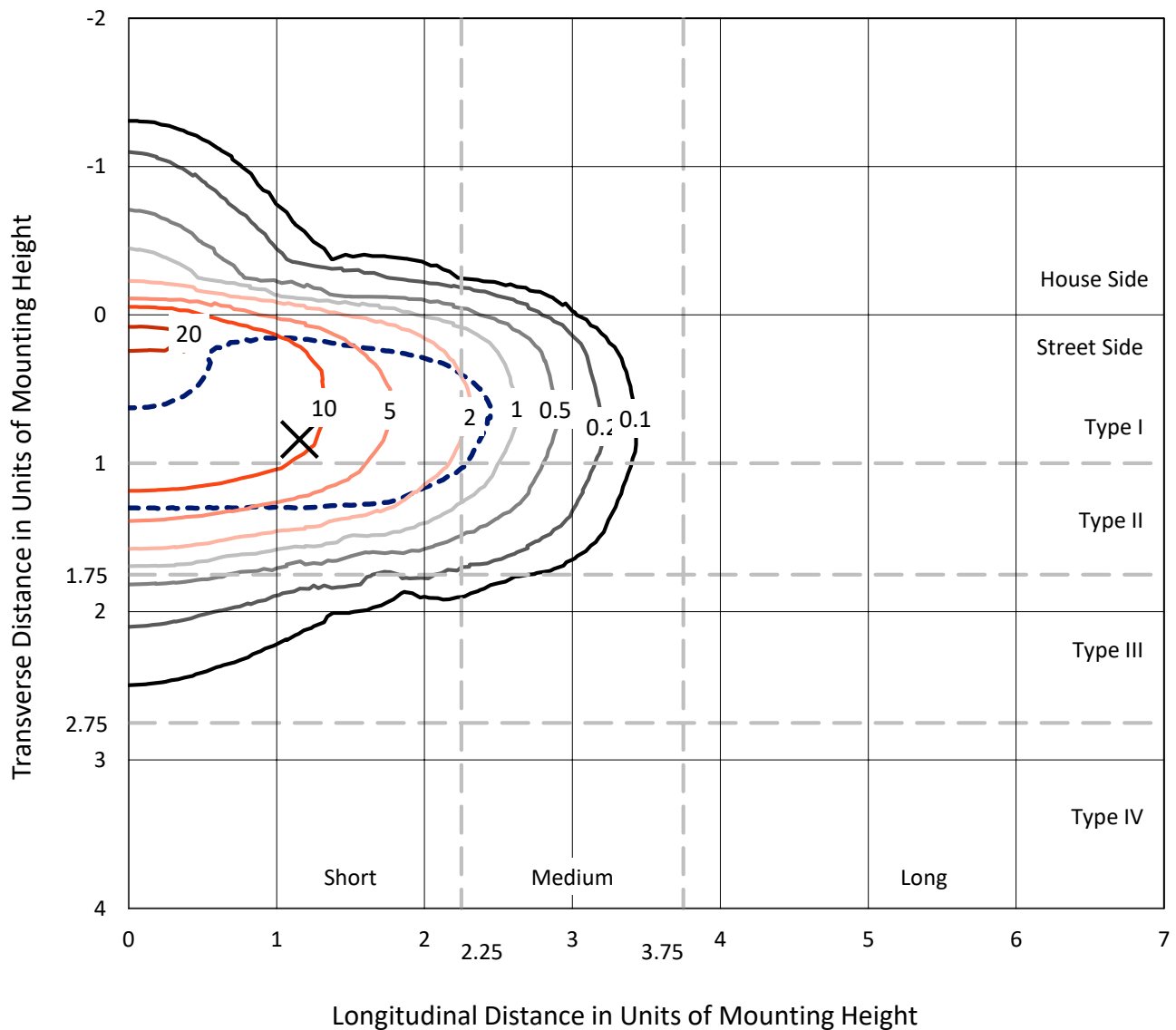
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

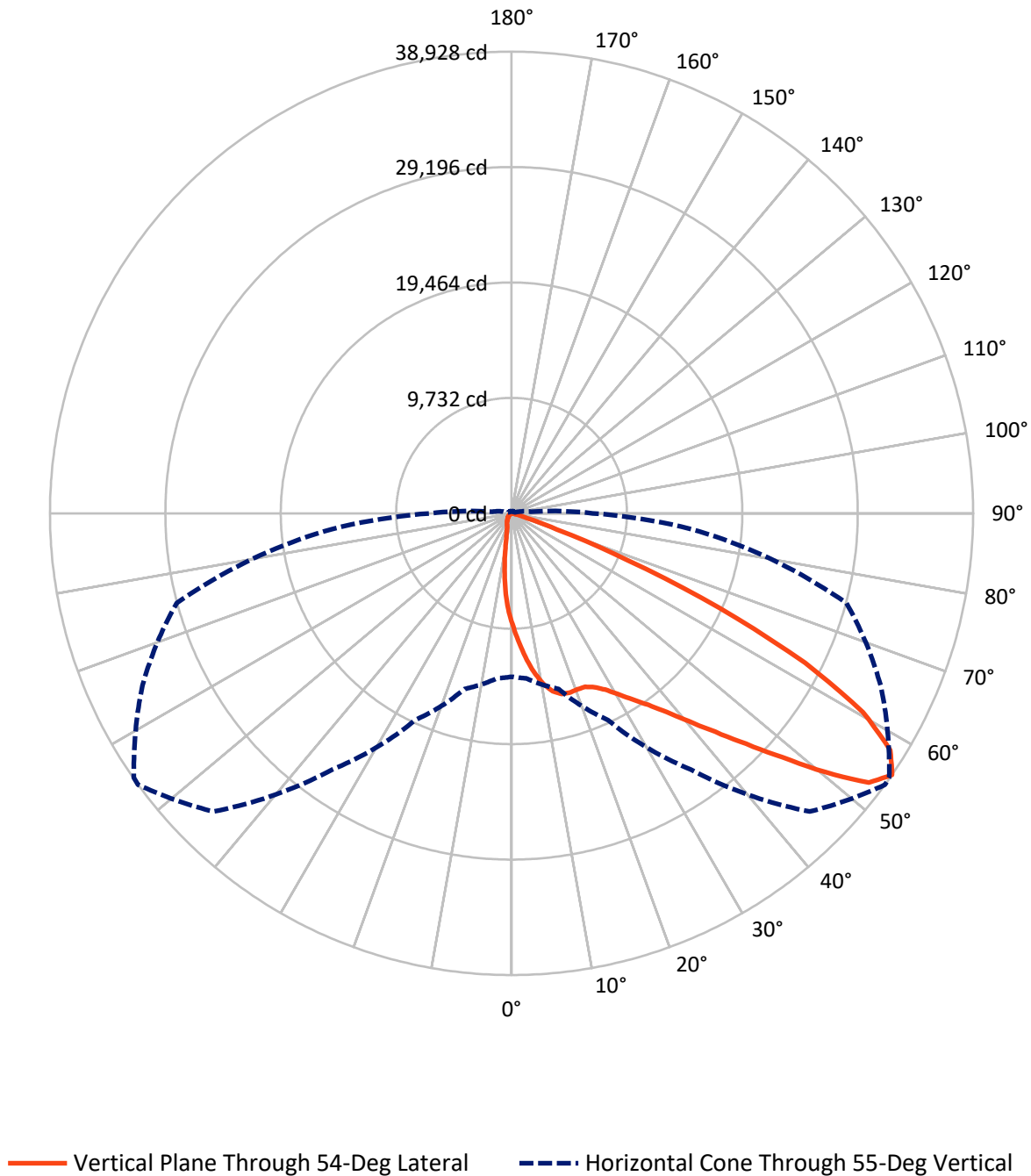
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	2082.7	0.0	2082.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39661.3	0.0	39661.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	41744.0	0.0	41744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.9	2.1
10°-20°	2361.2	5.7
20°-30°	4031.2	9.7
30°-40°	6469.5	15.5
40°-50°	10338.3	24.8
50°-60°	11077.7	26.5
60°-70°	5687.6	13.6
70°-80°	861.5	2.1
80°-90°	56.1	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°	41744.0	100.0
0°-180°	41744.0	100.0

Coefficient of Utilization



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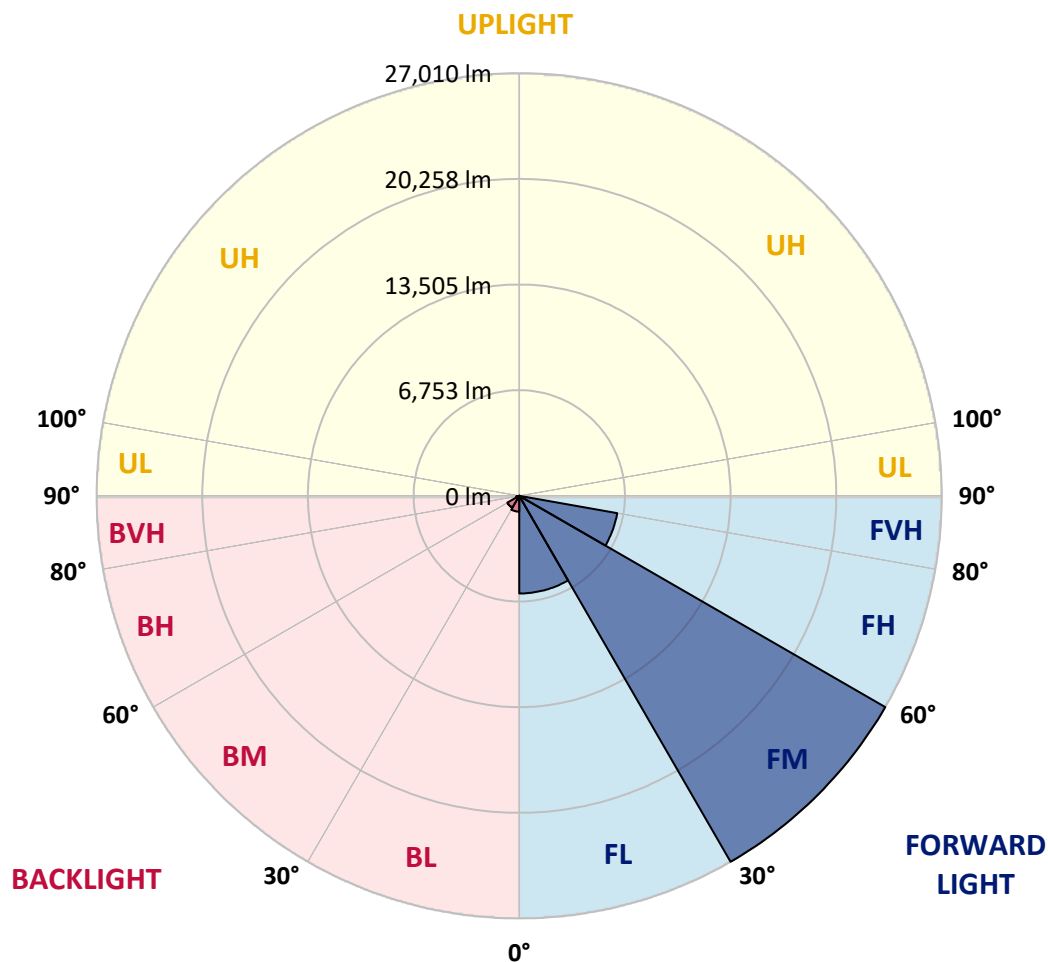
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6240.0	14.9			
FM	(30°-60°)	27010.2	64.7			
FH	(60°-80°)	6357.2	15.2			G3/7500
FVH	(80°-90°)	53.8	0.1			G1/100
BL	(0°-30°)	1013.3	2.4	B3/2500		
BM	(30°-60°)	875.2	2.1	B1/1000		
BH	(60°-80°)	191.9	0.5	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0
2.5°	11732.2	11557.3	11562.7	11483.4	11193.2	10966.0	10729.9	10674.0	10306.2	9920.4	9549.1
5°	13760.3	13632.3	13601.6	13448.4	13044.6	12617.3	12159.4	12053.1	11333.8	10544.2	9767.2
7.5°	14802.3	14804.1	14778.8	14722.9	14470.5	14055.9	13497.1	13385.3	12406.4	11222.0	9994.4
10°	14499.4	14567.9	14708.5	14894.2	15087.1	15034.8	14614.8	14513.8	13450.2	11939.5	10246.7
12.5°	13792.7	13801.7	13958.6	14263.2	14818.5	15388.1	15395.4	15361.1	14447.1	12689.4	10524.4
15°	13441.2	13475.4	13533.1	13729.6	14256.0	15168.2	15820.8	15869.5	15361.1	13486.3	10820.0
17.5°	13671.9	13720.6	13671.9	13695.4	14000.0	14820.3	15894.7	16019.1	16159.7	14274.1	11099.4
20°	14297.5	14342.6	14256.0	14160.5	14220.0	14719.3	15842.4	16010.1	16785.3	14973.5	11333.8
22.5°	15141.2	15159.2	15027.6	14870.8	14827.5	15061.8	15885.7	16058.8	17286.4	15606.3	11481.6
25°	16069.6	16085.8	15921.8	15741.5	15638.7	15734.3	16240.8	16370.6	17728.1	16210.2	11566.3
27.5°	17080.9	17095.3	16889.8	16668.1	16549.1	16552.7	16826.7	16965.5	18198.6	16898.8	11634.8
30°	18149.9	18142.7	17953.4	17645.2	17493.7	17490.1	17670.4	17811.0	18880.0	17782.2	11728.6
32.5°	19350.6	19336.1	19067.5	18685.3	18514.1	18539.3	18699.8	18780.9	19725.5	18723.2	11896.2
35°	20931.5	20890.1	20484.5	20010.4	19694.9	19685.9	19821.1	19886.0	20803.6	19862.5	12175.7
37.5°	22983.1	22945.2	22395.4	21706.7	21263.3	21097.4	21257.8	21340.8	22341.3	21324.5	12624.5
40°	25005.7	24967.9	24641.6	24010.6	23327.4	22929.0	23055.2	23143.5	24261.2	23098.4	13190.6
42.5°	26401.0	26433.5	26547.1	26599.3	25959.4	25122.9	25180.6	25272.5	26278.5	24994.9	13837.8
45°	26768.8	26839.1	27480.9	28741.0	28980.8	28328.2	27724.3	27774.7	28328.2	26891.4	14485.0
47.5°	25663.7	25793.5	27032.0	29375.6	31405.4	31866.9	30724.0	30657.3	30295.0	28425.5	14944.7
50°	23152.5	23271.5	24875.9	28342.6	32141.0	35245.3	34318.7	34122.2	32020.2	29343.1	15106.9
52.5°	19518.2	19662.4	20965.8	25090.5	30754.6	36752.3	37722.2	37558.2	33285.7	29415.2	15134.0
55°	13783.7	13958.6	15337.7	19229.8	26361.4	35553.5	38928.2	38879.6	34336.7	29224.1	15191.6
57.5°	7746.3	7872.5	9359.8	12327.1	19307.3	30967.4	37668.1	37990.8	34971.2	28892.4	15278.2
60°	3439.6	3473.9	4243.6	6136.5	11303.1	23666.3	34060.9	34605.3	34426.8	28449.0	15424.2
62.5°	1907.3	1878.4	1878.4	2550.9	4912.5	14650.8	27774.7	28674.3	32103.1	27924.4	15431.4
65°	1494.5	1467.4	1389.9	1400.7	1871.2	6502.5	19233.4	20832.4	27690.0	26386.6	14912.2
67.5°	1267.3	1243.9	1166.4	1135.7	1162.8	2145.3	10567.6	12227.9	21010.9	22390.0	12916.6
70°	1070.8	1054.6	1014.9	977.1	908.6	1060.0	4043.5	5172.0	12947.2	14894.2	8817.2
72.5°	861.7	854.5	868.9	836.5	753.5	706.7	1382.7	1674.7	5815.6	6646.7	3632.5
75°	742.7	739.1	746.3	713.9	620.1	492.1	703.1	768.0	1640.5	1626.1	735.5
77.5°	483.1	488.5	618.3	603.9	533.6	328.1	364.2	393.0	497.6	373.2	223.5
80°	308.3	304.7	313.7	501.2	479.5	250.6	182.1	191.1	239.8	183.9	108.2
82.5°	187.5	183.9	205.5	234.4	241.6	174.9	111.8	113.6	149.6	119.0	57.7
85°	16.2	21.6	124.4	115.4	82.9	54.1	54.1	57.7	79.3	70.3	32.4
87.5°	0.0	0.0	21.6	32.4	18.0	19.8	19.8	21.6	30.6	30.6	16.2
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°	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0	9349.0
2.5°	9356.2	9168.7	8790.1	8426.0	8117.7	7820.3	7481.3	7146.0	6989.2	6926.1	6861.2
5°	9372.4	8986.6	8206.0	7420.1	6605.2	5871.5	5246.0	4604.2	4283.3	4142.7	4077.8
7.5°	9394.0	8806.4	7544.4	6224.8	4912.5	3917.3	3048.4	2489.6	2248.0	2210.2	2116.4
10°	9397.7	8588.2	6776.5	4905.2	3293.6	2361.6	1817.2	1528.7	1422.4	1404.3	1373.7
12.5°	9404.9	8330.4	5923.8	3632.5	2195.7	1579.2	1314.2	1218.6	1189.8	1188.0	1188.0
15°	9426.5	8060.0	5038.6	2617.6	1577.4	1251.1	1153.8	1115.9	1105.1	1110.5	1108.7
17.5°	9426.5	7740.9	4169.7	1950.6	1274.5	1124.9	1070.8	1045.6	1042.0	1047.4	1049.2
20°	9358.0	7353.4	3372.9	1517.9	1130.3	1043.8	995.1	971.7	962.7	966.3	968.1
22.5°	9193.9	6877.4	2723.9	1256.5	1034.8	969.9	917.6	881.5	867.1	868.9	868.9
25°	8938.0	6313.2	2130.8	1087.0	957.3	890.6	829.3	787.8	778.8	777.0	780.6
27.5°	8609.9	5689.4	1696.4	957.3	865.3	802.2	740.9	706.7	699.5	701.3	703.1
30°	8287.2	5042.2	1337.6	847.3	762.6	703.1	656.2	640.0	640.0	645.4	647.2
32.5°	7991.5	4420.3	1058.2	751.7	670.6	616.5	589.5	587.7	596.7	600.3	602.1
35°	7737.3	3845.2	876.1	677.8	598.5	551.6	542.6	549.8	560.7	567.9	569.7
37.5°	7557.1	3331.5	766.2	616.5	542.6	504.8	503.0	517.4	531.8	548.0	551.6
40°	7481.3	2897.0	690.4	562.5	497.6	468.7	463.3	483.1	510.2	533.6	537.2
42.5°	7418.3	2541.9	625.5	510.2	461.5	420.0	418.2	443.5	475.9	499.4	504.8
45°	7364.2	2257.0	566.1	454.3	414.6	360.5	366.0	398.4	423.6	448.9	454.3
47.5°	7252.4	2022.7	501.2	394.8	342.5	308.3	319.1	347.9	367.8	405.6	411.0
50°	7052.3	1831.6	434.5	322.7	279.4	266.8	283.0	302.9	328.1	360.5	364.2
52.5°	6917.1	1687.4	376.8	270.4	230.8	234.4	250.6	257.8	272.2	284.8	281.2
55°	6839.6	1608.0	329.9	234.4	196.5	207.3	210.9	201.9	194.7	182.1	176.7
57.5°	6830.6	1535.9	293.8	203.7	173.1	178.5	165.9	135.2	110.0	95.5	91.9
60°	6816.1	1447.6	265.0	171.3	153.2	146.0	119.0	73.9	52.3	48.7	48.7
62.5°	6659.3	1310.6	243.4	144.2	129.8	110.0	68.5	34.3	28.8	30.6	30.6
65°	6159.9	1119.5	221.7	117.2	102.8	79.3	34.3	19.8	10.8	12.6	12.6
67.5°	5236.9	892.4	198.3	90.1	77.5	50.5	19.8	9.0	0.0	0.0	0.0
70°	3506.3	553.4	167.7	63.1	50.5	30.6	14.4	1.8	0.0	0.0	0.0
72.5°	1344.8	299.3	135.2	37.9	32.4	21.6	9.0	0.0	0.0	0.0	0.0
75°	302.9	196.5	93.7	27.0	23.4	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	115.4	142.4	54.1	18.0	16.2	9.0	0.0	0.0	0.0	0.0	0.0
80°	55.9	84.7	25.2	10.8	9.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	32.4	10.8	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	16.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	5.4	1.8	1.8	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)