

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: P323784

Luminaire Tested: **GAN-SA0D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52126 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

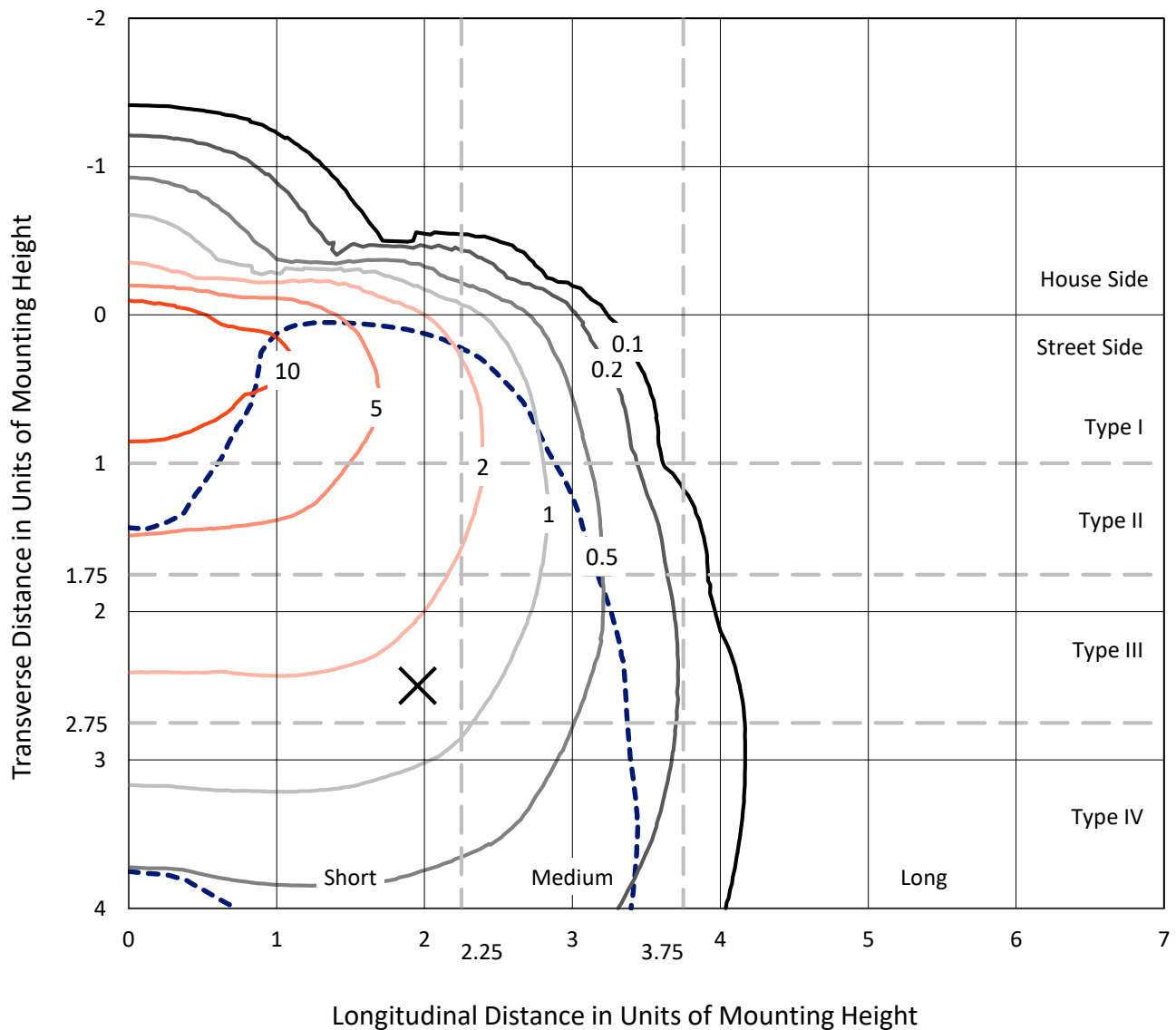
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323784
CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

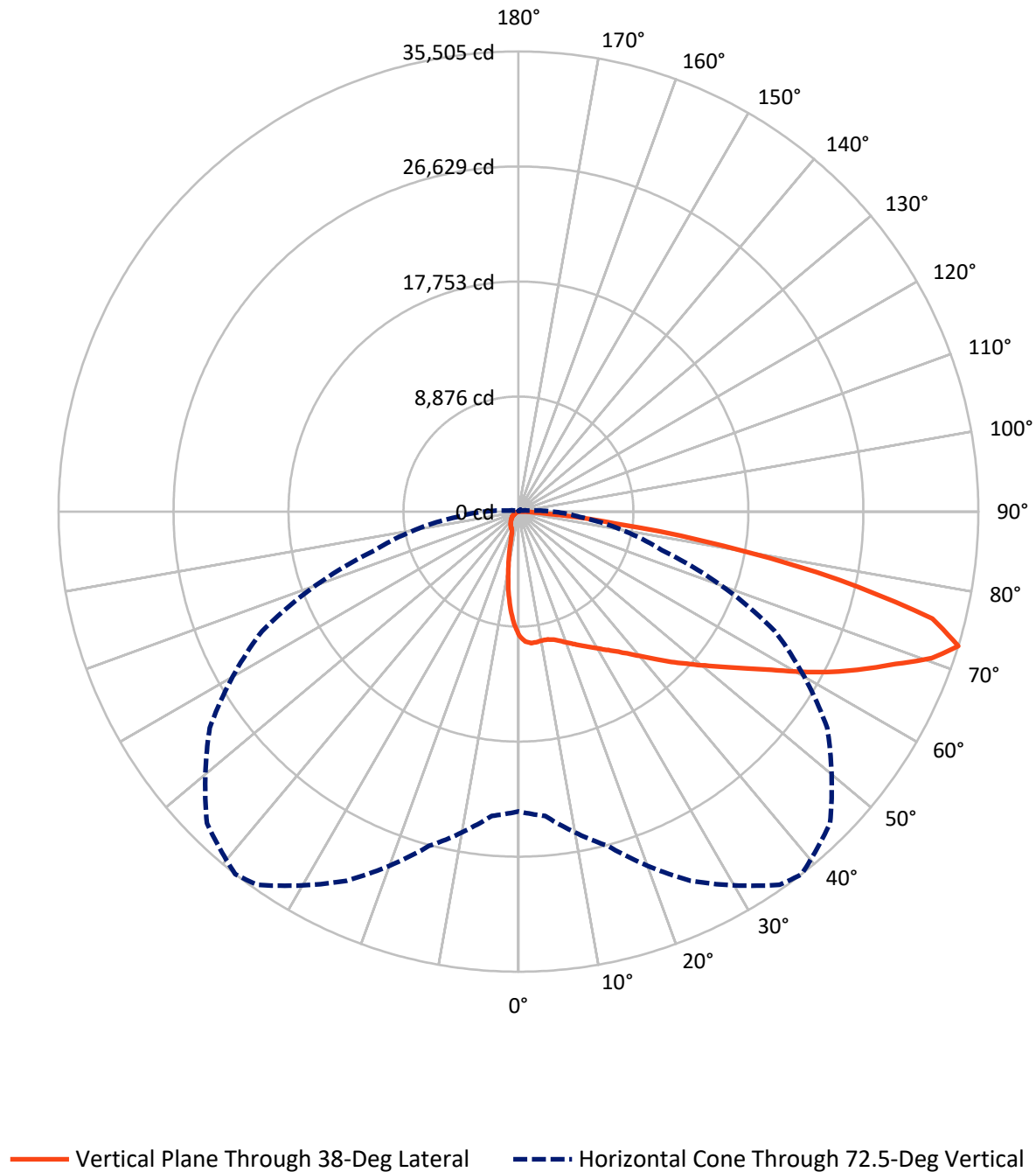
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
Type IV - Short - N/A

REPORT NUMBER: P323784
CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323784

CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4386.6	0.0	4386.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	47739.4	0.0	47739.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	52126.0	0.0	52126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.9	1.6
10°-20°	1997.5	3.8
20°-30°	3177.0	6.1
30°-40°	4776.2	9.2
40°-50°	7286.5	14.0
50°-60°	10298.2	19.8
60°-70°	12917.4	24.8
70°-80°	9658.6	18.5
80°-90°	1197.6	2.3
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°	52126.0	100.0
0°-180°	52126.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323784

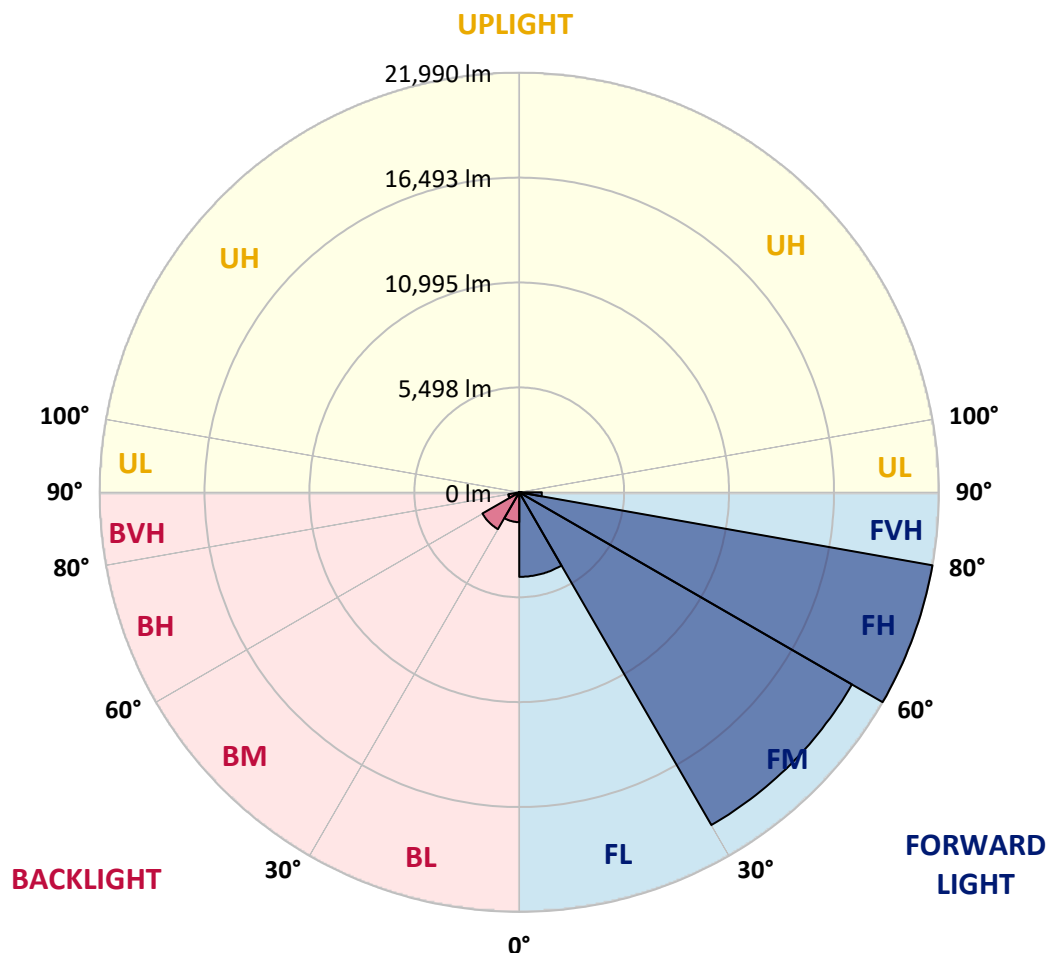
CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4429.5	8.5			
FM	(30°-60°)	20133.4	38.6			
FH	(60°-80°)	21990.1	42.2			G5
FVH	(80°-90°)	1186.5	2.3			G5
BL	(0°-30°)	1561.9	3.0	B3/2500		
BM	(30°-60°)	2227.6	4.3	B2/2500		
BH	(60°-80°)	586.0	1.1	B2/1000		G2/1000
BVH	(80°-90°)	11.2	0.0			G1/100
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



REPORT NUMBER: P323784

CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8
2.5°	10174.6	10176.8	10153.0	10114.0	10064.2	10038.2	9994.9	9925.7	9852.1	9720.0	9577.1
5°	10382.5	10382.5	10352.1	10300.2	10220.1	10196.3	10114.0	10003.6	9852.1	9637.8	9397.5
7.5°	10360.8	10365.1	10324.0	10269.9	10189.8	10168.1	10068.6	9945.2	9756.8	9497.0	9189.6
10°	10248.2	10259.1	10226.6	10200.6	10127.0	10103.2	10010.1	9886.7	9698.4	9421.3	9068.4
12.5°	10133.5	10144.3	10155.1	10179.0	10133.5	10124.8	10051.2	9947.3	9767.6	9479.7	9081.4
15°	10059.9	10081.5	10159.5	10252.6	10263.4	10254.7	10207.1	10109.7	9927.8	9629.1	9174.5
17.5°	10059.9	10094.5	10256.9	10434.4	10497.2	10503.7	10462.5	10326.2	10109.7	9789.3	9261.1
20°	10144.3	10191.9	10445.2	10696.3	10800.3	10800.3	10720.2	10529.7	10276.4	9934.3	9319.5
22.5°	10360.8	10423.6	10741.8	11031.9	11142.3	11118.5	11010.2	10733.2	10449.6	10098.9	9393.1
25°	10787.3	10834.9	11166.1	11458.4	11525.5	11471.4	11335.0	10979.9	10670.4	10321.8	9527.3
27.5°	11337.1	11343.6	11685.7	11932.5	11891.3	11854.5	11683.5	11289.5	10988.6	10640.1	9759.0
30°	11941.1	11941.1	12242.0	12430.4	12304.8	12274.5	12103.5	11664.0	11395.6	11073.0	10088.0
32.5°	12525.6	12551.6	12796.2	12915.3	12774.6	12744.3	12577.6	12138.1	11936.8	11733.3	10601.1
35°	13090.6	13110.1	13341.8	13406.7	13272.5	13281.1	13162.1	12789.7	12714.0	12688.0	11373.9
37.5°	13638.3	13642.7	13878.6	13919.8	13852.6	13926.3	13937.1	13608.0	13748.7	13958.7	12462.8
40°	14138.4	14142.7	14376.5	14482.6	14597.3	14692.6	14777.0	14601.7	15067.1	15554.2	13759.6
42.5°	14538.9	14584.4	14880.9	15082.3	15385.3	15567.2	15796.7	15788.0	16636.6	17368.3	15326.9
45°	14891.8	14969.7	15383.2	15736.0	16255.6	16545.7	16905.0	17186.5	18403.1	19388.1	16913.7
47.5°	15357.2	15430.8	15902.7	16480.7	17173.5	17554.5	18149.8	18758.1	20344.9	21371.1	18463.7
50°	16013.1	15980.7	16446.1	17275.2	18165.0	18665.0	19513.6	20425.0	22271.6	23098.6	19375.1
52.5°	16712.4	16699.4	17043.6	18139.0	19334.0	19918.5	21039.8	22148.2	24113.9	24289.2	19792.9
55°	17578.3	17485.2	17775.3	19124.0	20721.6	21349.4	22669.9	23854.1	25581.6	24960.3	20002.9
57.5°	18485.4	18331.7	18608.7	20221.5	22286.8	23029.3	24475.4	25516.7	26557.9	25419.3	20000.7
60°	19422.7	19240.9	19569.9	21594.0	24230.8	25090.2	26432.4	26640.2	27469.3	25650.9	19853.5
62.5°	20206.4	20098.1	20587.4	23061.8	26402.1	27246.4	27911.0	27662.0	28237.8	25830.6	19509.3
65°	21035.5	21042.0	21832.2	24774.1	28709.8	29279.1	29335.4	28986.9	28880.8	25793.8	18344.6
67.5°	22156.9	22260.8	23579.2	27099.2	30954.7	31394.1	31389.8	30422.1	29350.6	24330.4	15762.0
70°	23343.2	23587.8	25592.4	29759.7	33405.3	33851.2	33621.7	31335.7	27636.0	19673.8	11155.3
72.5°	23144.0	23568.3	26711.6	31437.4	35165.3	35505.1	34013.6	29090.8	21843.0	11434.6	4749.6
75°	17855.4	18346.8	24492.7	29774.9	33318.7	33013.4	29225.0	22637.5	11936.8	3190.9	1069.4
77.5°	9432.1	9694.0	16179.8	22682.9	25979.9	25341.3	20587.4	12558.1	3639.1	790.2	480.6
80°	4940.1	5000.7	7050.8	12869.8	16034.8	16039.1	12200.9	5515.9	1500.2	404.8	322.6
82.5°	2645.4	2697.4	3725.6	5946.7	8401.6	7615.8	4671.7	3035.1	872.4	229.5	309.6
85°	636.5	647.3	2112.9	2716.8	3303.5	2359.6	1387.6	2548.0	236.0	134.2	251.1
87.5°	244.6	249.0	783.7	1175.5	842.1	545.5	649.4	950.4	30.3	52.0	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323784

CATALOG NUMBER: GAN-SA0D-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8	9585.8
2.5°	9490.5	9434.3	9295.7	9120.4	8964.5	8851.9	8683.1	8572.7	8499.1	8496.9	8468.8
5°	9250.3	9135.5	8836.8	8481.7	8159.2	7869.1	7527.1	7256.5	7055.1	7022.7	6953.4
7.5°	8992.6	8804.3	8345.4	7791.2	7250.0	6700.1	6061.5	5665.3	5325.4	5163.1	5145.8
10°	8834.6	8570.5	7918.9	7117.9	6269.3	5375.2	4539.6	3961.6	3543.8	3424.7	3336.0
12.5°	8802.1	8453.6	7589.8	6485.8	5273.5	4091.5	3167.1	2552.3	2218.9	2112.9	2084.7
15°	8834.6	8399.5	7312.7	5860.2	4264.7	2903.0	2125.8	1768.7	1643.1	1612.8	1610.6
17.5°	8854.1	8334.5	6998.8	5165.2	3286.2	2073.9	1627.9	1524.0	1504.5	1502.4	1506.7
20°	8851.9	8235.0	6624.3	4390.2	2444.1	1630.1	1472.1	1450.4	1446.1	1448.3	1446.1
22.5°	8836.8	8118.1	6213.0	3591.4	1846.6	1456.9	1405.0	1392.0	1389.8	1389.8	1389.8
25°	8864.9	8025.0	5760.6	2827.2	1521.9	1376.8	1344.3	1333.5	1331.4	1331.4	1327.0
27.5°	8966.7	7973.0	5264.8	2175.6	1374.7	1305.4	1279.4	1277.2	1270.7	1268.6	1272.9
30°	9131.2	7973.0	4721.5	1692.9	1285.9	1231.8	1212.3	1208.0	1205.8	1203.6	1205.8
32.5°	9421.3	8033.6	4128.3	1407.1	1201.5	1149.5	1136.5	1143.0	1136.5	1136.5	1136.5
35°	9945.2	8215.5	3507.0	1227.4	1112.7	1069.4	1056.4	1065.1	1060.8	1060.8	1058.6
37.5°	10709.3	8553.2	2881.4	1119.2	1034.8	989.3	972.0	985.0	980.7	980.7	978.5
40°	11640.2	9044.6	2286.0	1036.9	959.0	911.4	896.2	902.7	891.9	891.9	896.2
42.5°	12789.7	9668.1	1766.5	956.8	883.2	837.8	829.1	822.6	803.1	792.3	794.5
45°	14067.0	10317.5	1376.8	878.9	811.8	775.0	762.0	744.7	712.2	690.6	692.7
47.5°	15207.8	10817.6	1119.2	803.1	746.9	718.7	699.2	666.8	619.1	593.2	595.3
50°	15807.5	10893.3	952.5	727.4	686.2	658.1	630.0	580.2	523.9	495.7	493.6
52.5°	15961.2	10538.3	829.1	658.1	625.6	593.2	556.4	489.2	426.5	396.2	391.8
55°	16017.5	9997.1	718.7	593.2	560.7	523.9	476.3	400.5	342.0	311.7	309.6
57.5°	15831.3	9189.6	632.1	534.7	495.7	450.3	391.8	320.4	264.1	240.3	240.3
60°	15417.8	8096.4	565.0	471.9	428.6	376.7	316.1	249.0	197.0	177.5	177.5
62.5°	14593.0	6680.6	502.2	407.0	365.9	311.7	255.4	188.3	138.5	127.7	129.9
65°	13036.5	5067.8	439.5	348.5	311.7	257.6	199.2	134.2	93.1	93.1	97.4
67.5°	10631.4	3520.0	374.5	296.6	268.4	210.0	151.5	93.1	64.9	73.6	82.3
70°	7037.8	1974.3	320.4	244.6	229.5	166.7	112.6	62.8	52.0	69.3	84.4
72.5°	2656.2	768.5	268.4	197.0	199.2	127.7	80.1	47.6	47.6	75.8	99.6
75°	740.4	376.7	192.7	145.0	155.9	93.1	58.4	41.1	45.5	86.6	116.9
77.5°	435.1	277.1	125.6	84.4	106.1	64.9	39.0	32.5	39.0	73.6	112.6
80°	350.7	147.2	73.6	43.3	58.4	36.8	26.0	19.5	10.8	28.1	58.4
82.5°	350.7	88.8	34.6	30.3	30.3	19.5	13.0	8.7	2.2	0.0	15.2
85°	236.0	36.8	21.6	19.5	15.2	6.5	4.3	2.2	0.0	0.0	0.0
87.5°	39.0	15.2	8.7	4.3	2.2	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)