

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: P323781

Luminaire Tested: **GAN-SA7D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323781
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-SA7D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37250 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

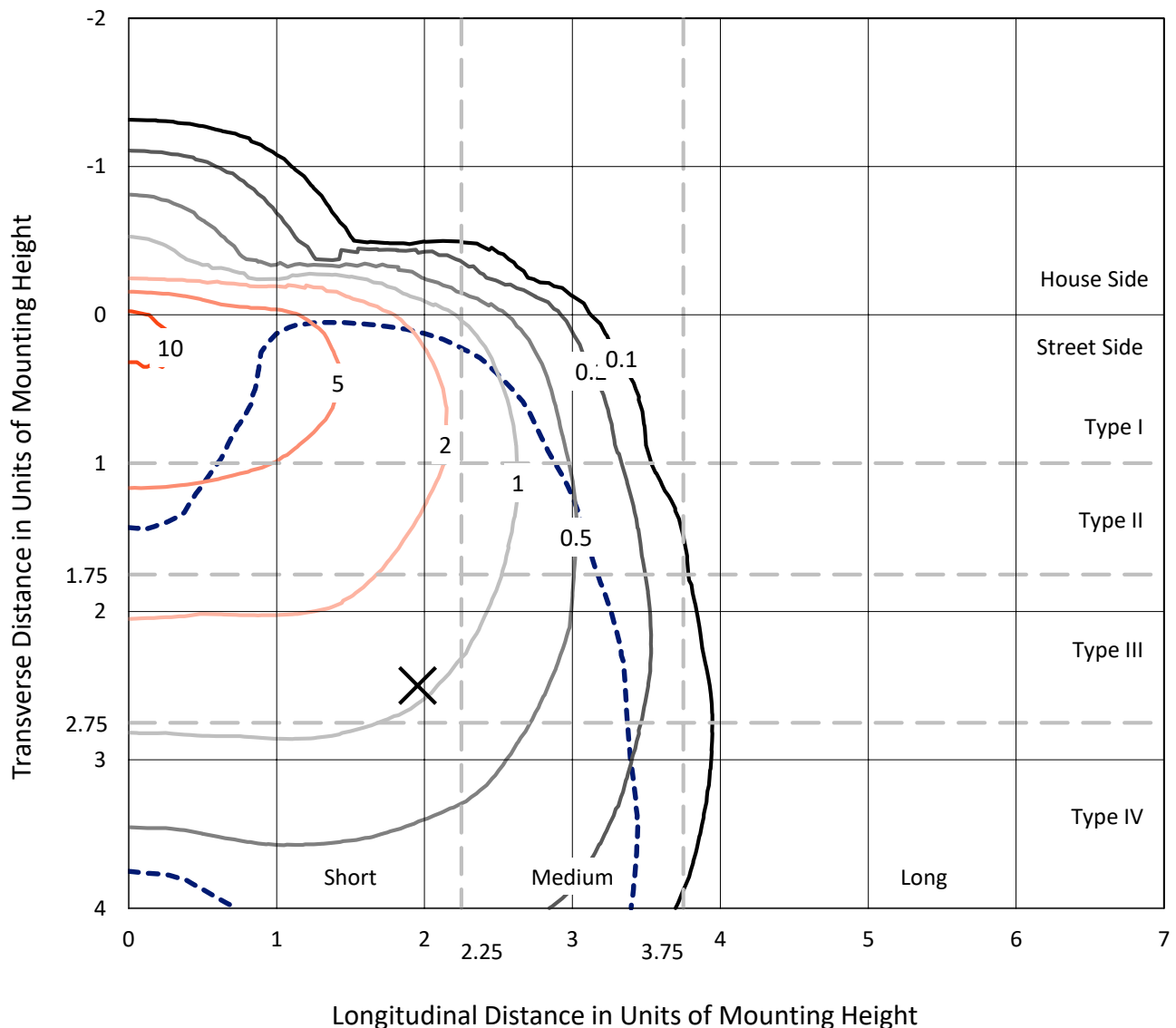
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323781
 CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

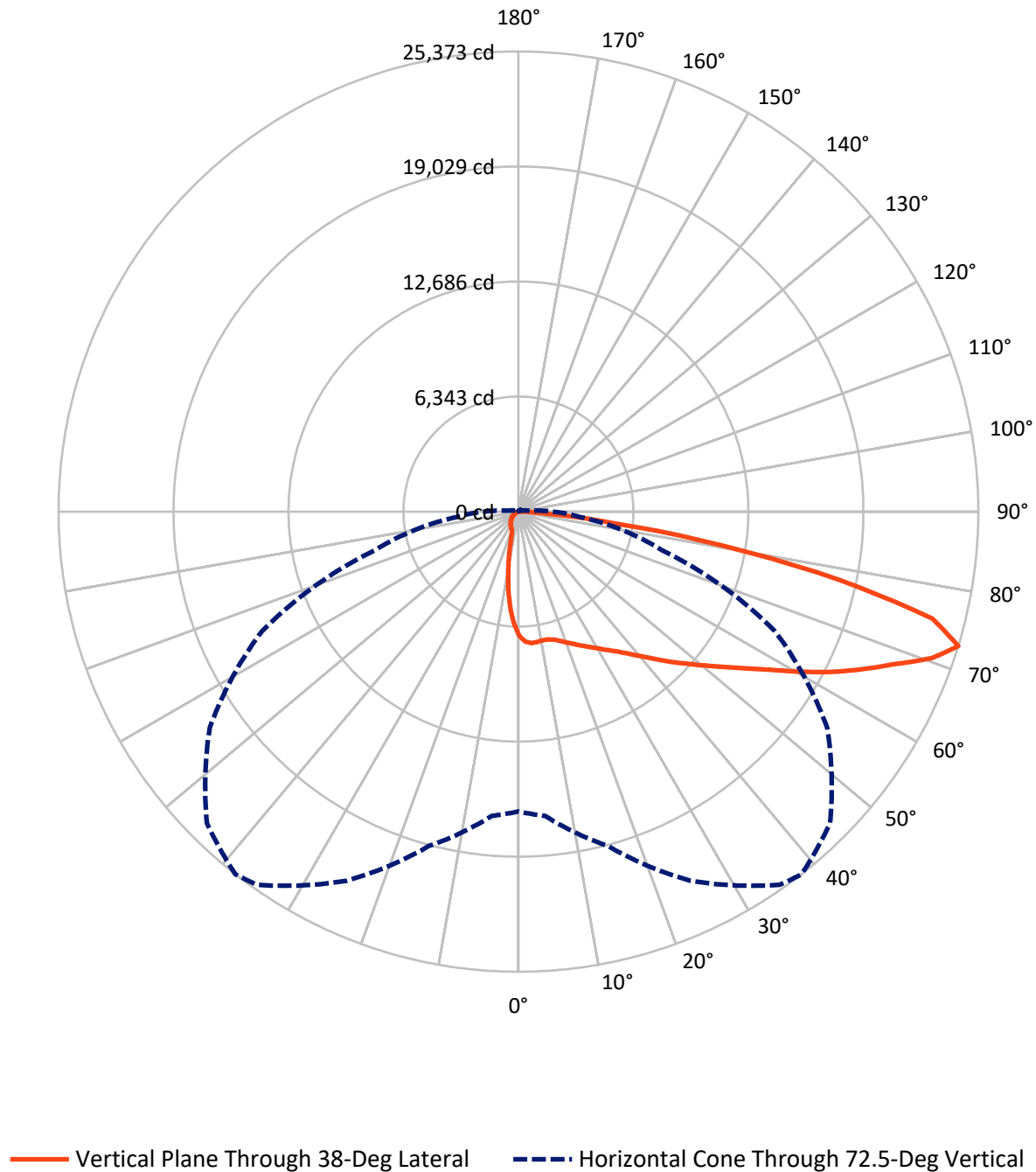
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P323781
CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323781

CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3134.7	0.0	3134.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34115.3	0.0	34115.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	37250.0	0.0	37250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.8	1.6
10°-20°	1427.4	3.8
20°-30°	2270.3	6.1
30°-40°	3413.2	9.2
40°-50°	5207.0	14.0
50°-60°	7359.3	19.8
60°-70°	9231.0	24.8
70°-80°	6902.2	18.5
80°-90°	855.8	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°	37250.0	100.0
0°-180°	37250.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323781

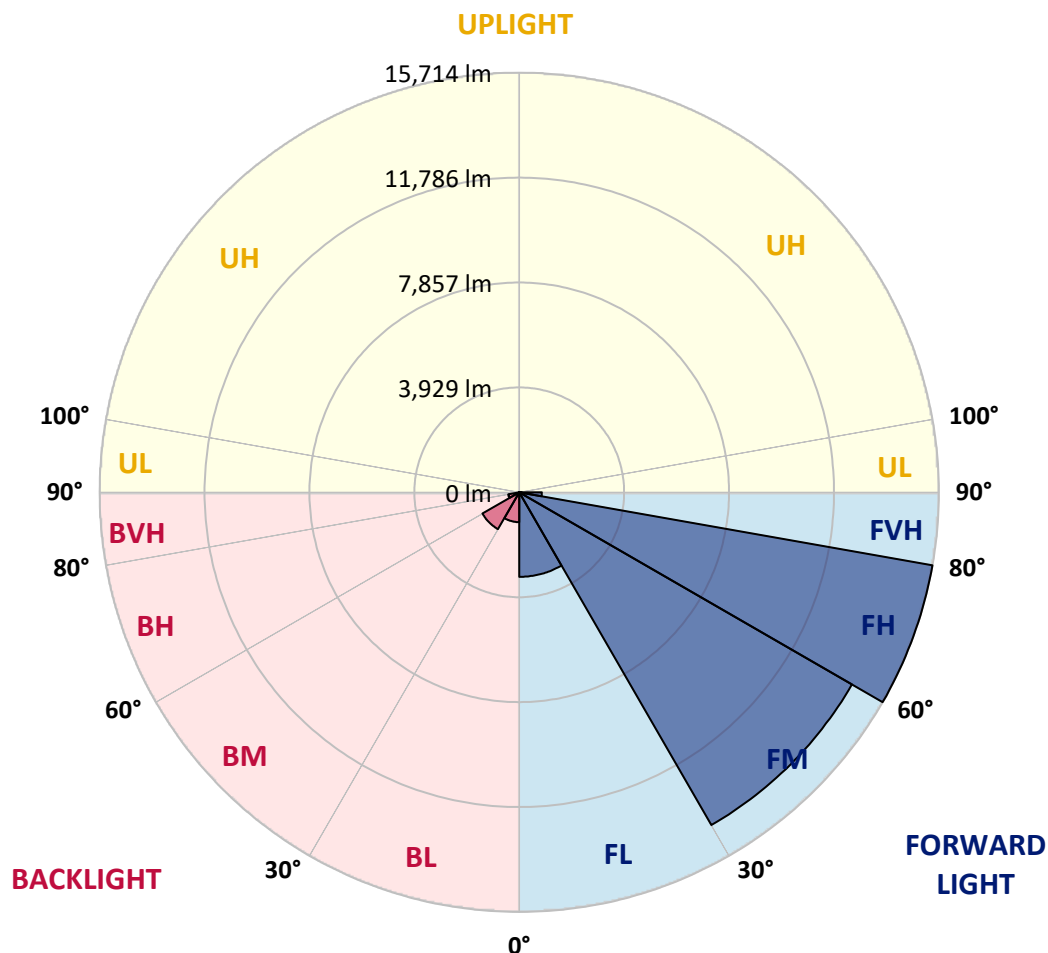
CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3165.3	8.5			
FM	(30°-60°)	14387.6	38.6			
FH	(60°-80°)	15714.5	42.2			G5
FVH	(80°-90°)	847.9	2.3			G5
BL	(0°-30°)	1116.2	3.0	B3/2500		
BM	(30°-60°)	1591.9	4.3	B2/2500		
BH	(60°-80°)	418.7	1.1	B1/500		G1/500
BVH	(80°-90°)	8.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P323781

CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2
2.5°	7270.9	7272.5	7255.5	7227.6	7192.0	7173.5	7142.5	7093.0	7040.4	6946.1	6844.0
5°	7419.5	7419.5	7397.8	7360.7	7303.4	7286.4	7227.6	7148.7	7040.4	6887.3	6715.6
7.5°	7404.0	7407.1	7377.7	7339.0	7281.8	7266.3	7195.1	7107.0	6972.4	6786.7	6567.0
10°	7323.5	7331.3	7308.1	7289.5	7236.9	7219.9	7153.4	7065.2	6930.6	6732.6	6480.4
12.5°	7241.5	7249.3	7257.0	7274.0	7241.5	7235.4	7182.8	7108.5	6980.1	6774.3	6489.7
15°	7188.9	7204.4	7260.1	7326.6	7334.4	7328.2	7294.1	7224.5	7094.6	6881.1	6556.2
17.5°	7188.9	7213.7	7329.7	7456.6	7501.4	7506.1	7476.7	7379.2	7224.5	6995.6	6618.1
20°	7249.3	7283.3	7464.3	7643.8	7718.0	7718.0	7660.8	7524.6	7343.6	7099.2	6659.9
22.5°	7404.0	7448.8	7676.3	7883.6	7962.5	7945.4	7868.1	7670.1	7467.4	7216.8	6712.5
25°	7708.7	7742.8	7979.5	8188.3	8236.3	8197.6	8100.1	7846.4	7625.2	7376.1	6808.4
27.5°	8101.7	8106.3	8350.8	8527.1	8497.7	8471.4	8349.2	8067.6	7852.6	7603.5	6973.9
30°	8533.3	8533.3	8748.3	8882.9	8793.2	8771.5	8649.3	8335.3	8143.5	7912.9	7209.1
32.5°	8951.0	8969.6	9144.4	9229.5	9128.9	9107.2	8988.1	8674.1	8530.2	8384.8	7575.7
35°	9354.8	9368.7	9534.2	9580.6	9484.7	9490.9	9405.8	9139.7	9085.6	9067.0	8128.0
37.5°	9746.2	9749.2	9917.9	9947.3	9899.3	9951.9	9959.6	9724.5	9825.0	9975.1	8906.1
40°	10103.5	10106.6	10273.7	10349.5	10431.5	10499.5	10559.9	10434.6	10767.2	11115.3	9832.8
42.5°	10389.7	10422.2	10634.1	10778.0	10994.6	11124.5	11288.5	11282.3	11888.8	12411.6	10952.8
45°	10641.9	10697.6	10993.0	11245.2	11616.5	11823.8	12080.6	12281.7	13151.1	13855.0	12086.8
47.5°	10974.5	11027.1	11364.3	11777.4	12272.4	12544.7	12970.1	13404.8	14538.8	15272.1	13194.4
50°	11443.2	11420.0	11752.6	12345.1	12980.9	13338.3	13944.7	14596.0	15915.6	16506.6	13845.7
52.5°	11942.9	11933.6	12179.6	12962.4	13816.3	14234.0	15035.4	15827.4	17232.1	17357.4	14144.3
55°	12561.7	12495.2	12702.5	13666.3	14808.0	15256.6	16200.3	17046.5	18281.0	17837.0	14294.4
57.5°	13209.9	13100.1	13298.1	14450.6	15926.4	16457.1	17490.5	18234.6	18978.7	18165.0	14292.8
60°	13879.8	13749.8	13985.0	15431.4	17315.7	17929.8	18889.0	19037.5	19630.0	18330.5	14187.6
62.5°	14439.8	14362.4	14712.0	16480.3	18867.3	19470.6	19945.6	19767.7	20179.2	18458.9	13941.6
65°	15032.3	15036.9	15601.6	17704.0	20516.4	20923.3	20963.5	20714.4	20638.6	18432.6	13109.3
67.5°	15833.6	15907.9	16850.0	19365.4	22120.7	22434.7	22431.6	21740.1	20974.3	17386.8	11263.8
70°	16681.4	16856.2	18288.7	21266.7	23871.9	24190.6	24026.6	22392.9	19749.1	14059.2	7971.7
72.5°	16539.1	16842.3	19088.5	22465.7	25129.6	25372.5	24306.6	20788.7	15609.3	8171.3	3394.1
75°	12759.7	13110.9	17502.9	21277.6	23810.0	23591.9	20884.6	16177.1	8530.2	2280.3	764.2
77.5°	6740.3	6927.5	11562.3	16209.6	18565.6	18109.3	14712.0	8974.2	2600.5	564.7	343.4
80°	3530.3	3573.6	5038.6	9197.0	11458.7	11461.8	8718.9	3941.8	1072.1	289.3	230.5
82.5°	1890.4	1927.6	2662.4	4249.6	6003.9	5442.4	3338.4	2168.9	623.4	164.0	221.2
85°	454.8	462.6	1509.9	1941.5	2360.7	1686.2	991.6	1820.8	168.6	95.9	179.5
87.5°	174.8	177.9	560.0	840.0	601.8	389.8	464.1	679.1	21.7	37.1	27.8
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: P323781

CATALOG NUMBER: GAN-SA7D-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2	6850.2
2.5°	6782.1	6741.9	6642.9	6517.5	6406.2	6325.7	6205.0	6126.2	6073.6	6072.0	6051.9
5°	6610.4	6528.4	6314.9	6061.2	5830.7	5623.4	5378.9	5185.6	5041.7	5018.5	4969.0
7.5°	6426.3	6291.7	5963.7	5567.7	5180.9	4788.0	4331.6	4048.5	3805.6	3689.6	3677.2
10°	6313.3	6124.6	5659.0	5086.6	4480.1	3841.2	3244.1	2831.0	2532.5	2447.4	2383.9
12.5°	6290.1	6041.1	5423.8	4634.8	3768.5	2923.8	2263.3	1823.9	1585.7	1509.9	1489.8
15°	6313.3	6002.4	5225.8	4187.8	3047.6	2074.5	1519.2	1263.9	1174.2	1152.5	1151.0
17.5°	6327.3	5956.0	5001.5	3691.2	2348.4	1482.0	1163.4	1089.1	1075.2	1073.6	1076.7
20°	6325.7	5884.8	4733.8	3137.3	1746.6	1164.9	1052.0	1036.5	1033.4	1034.9	1033.4
22.5°	6314.9	5801.3	4439.9	2566.5	1319.6	1041.1	1004.0	994.7	993.2	993.2	993.2
25°	6335.0	5734.8	4116.6	2020.4	1087.5	983.9	960.7	953.0	951.4	951.4	948.3
27.5°	6407.7	5697.6	3762.3	1554.7	982.4	932.8	914.3	912.7	908.1	906.5	909.6
30°	6525.3	5697.6	3374.0	1209.8	918.9	880.2	866.3	863.2	861.7	860.1	861.7
32.5°	6732.6	5740.9	2950.1	1005.6	858.6	821.5	812.2	816.8	812.2	812.2	812.2
35°	7107.0	5870.9	2506.2	877.2	795.2	764.2	754.9	761.1	758.0	758.0	756.5
37.5°	7653.0	6112.2	2059.1	799.8	739.5	707.0	694.6	703.9	700.8	700.8	699.2
40°	8318.3	6463.4	1633.6	741.0	685.3	651.3	640.5	645.1	637.4	637.4	640.5
42.5°	9139.7	6908.9	1262.4	683.8	631.2	598.7	592.5	587.9	573.9	566.2	567.8
45°	10052.5	7373.0	983.9	628.1	580.1	553.8	544.5	532.2	509.0	493.5	495.0
47.5°	10867.7	7730.4	799.8	573.9	533.7	513.6	499.7	476.5	442.4	423.9	425.4
50°	11296.3	7784.5	680.7	519.8	490.4	470.3	450.2	414.6	374.4	354.3	352.7
52.5°	11406.1	7530.8	592.5	470.3	447.1	423.9	397.6	349.6	304.8	283.1	280.0
55°	11446.3	7144.1	513.6	423.9	400.7	374.4	340.3	286.2	244.4	222.8	221.2
57.5°	11313.3	6567.0	451.7	382.1	354.3	321.8	280.0	229.0	188.7	171.7	171.7
60°	11017.8	5785.8	403.8	337.2	306.3	269.2	225.9	177.9	140.8	126.9	126.9
62.5°	10428.4	4774.1	358.9	290.8	261.4	222.8	182.5	134.6	99.0	91.3	92.8
65°	9316.1	3621.5	314.0	249.1	222.8	184.1	142.3	95.9	66.5	66.5	69.6
67.5°	7597.4	2515.4	267.6	211.9	191.8	150.1	108.3	66.5	46.4	52.6	58.8
70°	5029.3	1410.9	229.0	174.8	164.0	119.1	80.4	44.9	37.1	49.5	60.3
72.5°	1898.2	549.2	191.8	140.8	142.3	91.3	57.2	34.0	34.0	54.1	71.2
75°	529.1	269.2	137.7	103.6	111.4	66.5	41.8	29.4	32.5	61.9	83.5
77.5°	310.9	198.0	89.7	60.3	75.8	46.4	27.8	23.2	27.8	52.6	80.4
80°	250.6	105.2	52.6	30.9	41.8	26.3	18.6	13.9	7.7	20.1	41.8
82.5°	250.6	63.4	24.8	21.7	21.7	13.9	9.3	6.2	1.5	0.0	10.8
85°	168.6	26.3	15.5	13.9	10.8	4.6	3.1	1.5	0.0	0.0	0.0
87.5°	27.8	10.8	6.2	3.1	1.5	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)