

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: P321219

Luminaire Tested: **GAN-SA5D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26178 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

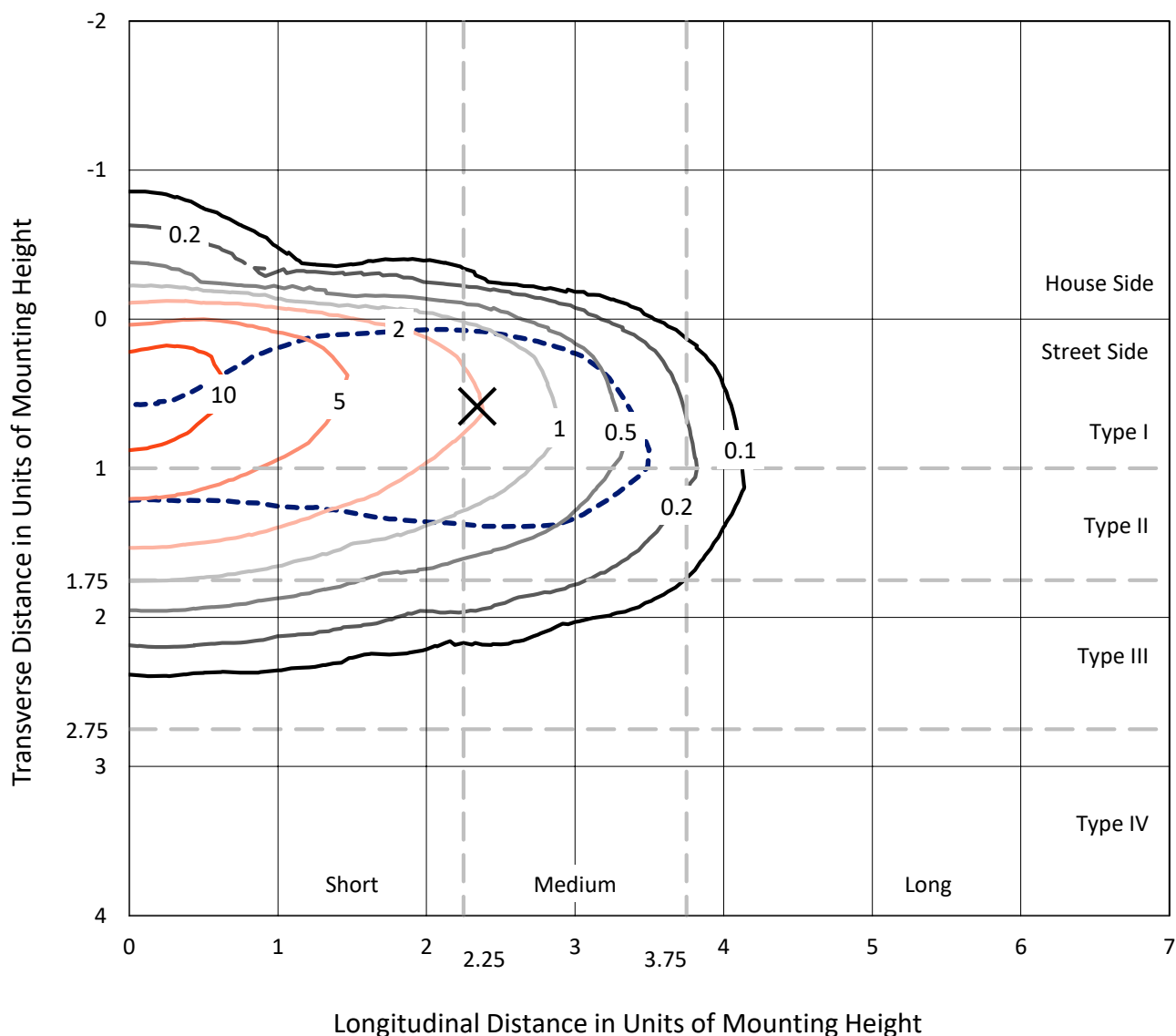
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

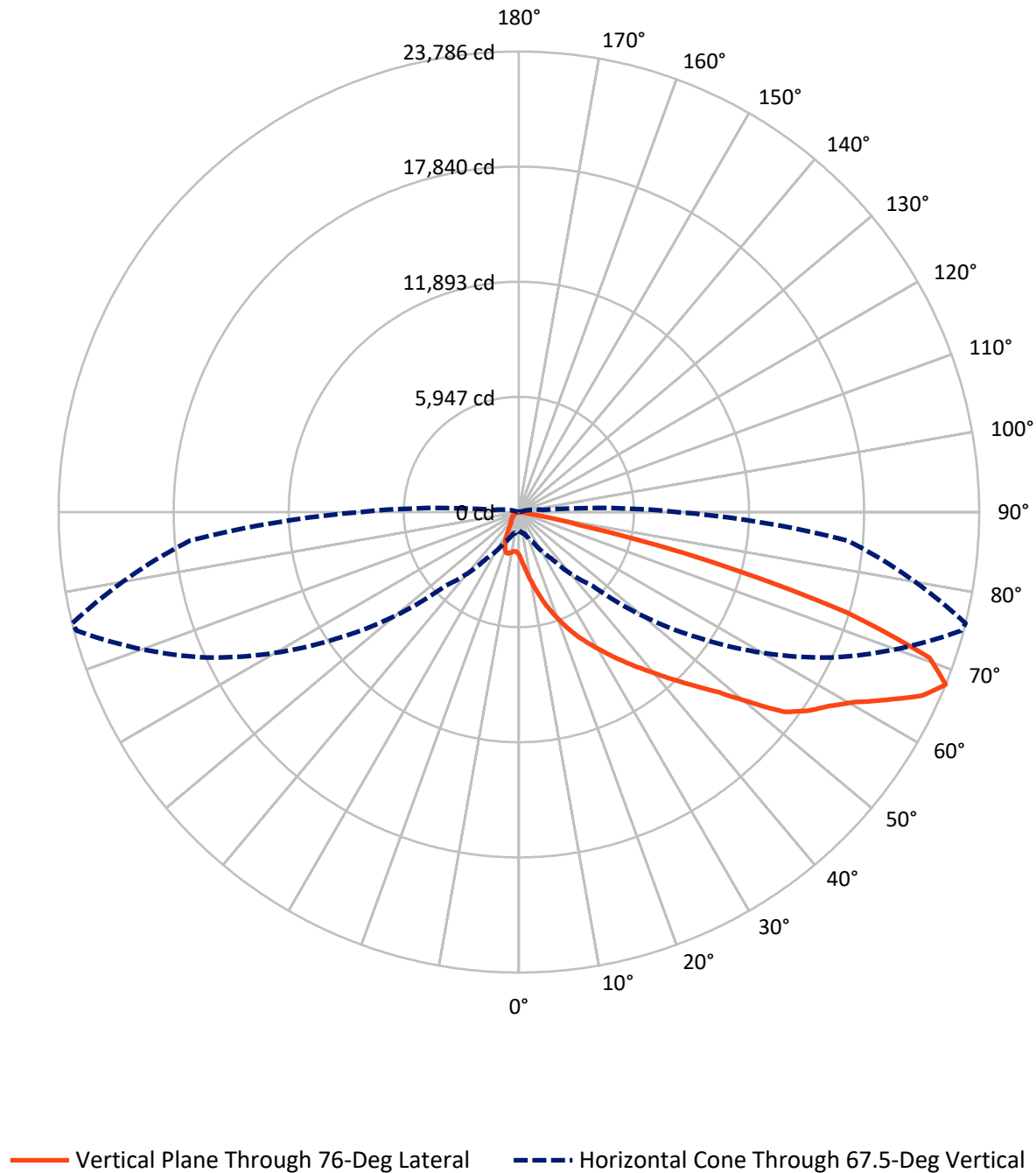
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.9	0.0	1299.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24878.1	0.0	24878.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	26178.0	0.0	26178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	1.1
10°-20°	1094.6	4.2
20°-30°	2227.2	8.5
30°-40°	3865.7	14.8
40°-50°	5461.8	20.9
50°-60°	6193.9	23.7
60°-70°	5137.3	19.6
70°-80°	1860.9	7.1
80°-90°	60.3	0.2
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°	26178.0	100.0
0°-180°	26178.0	100.0

Coefficient of Utilization



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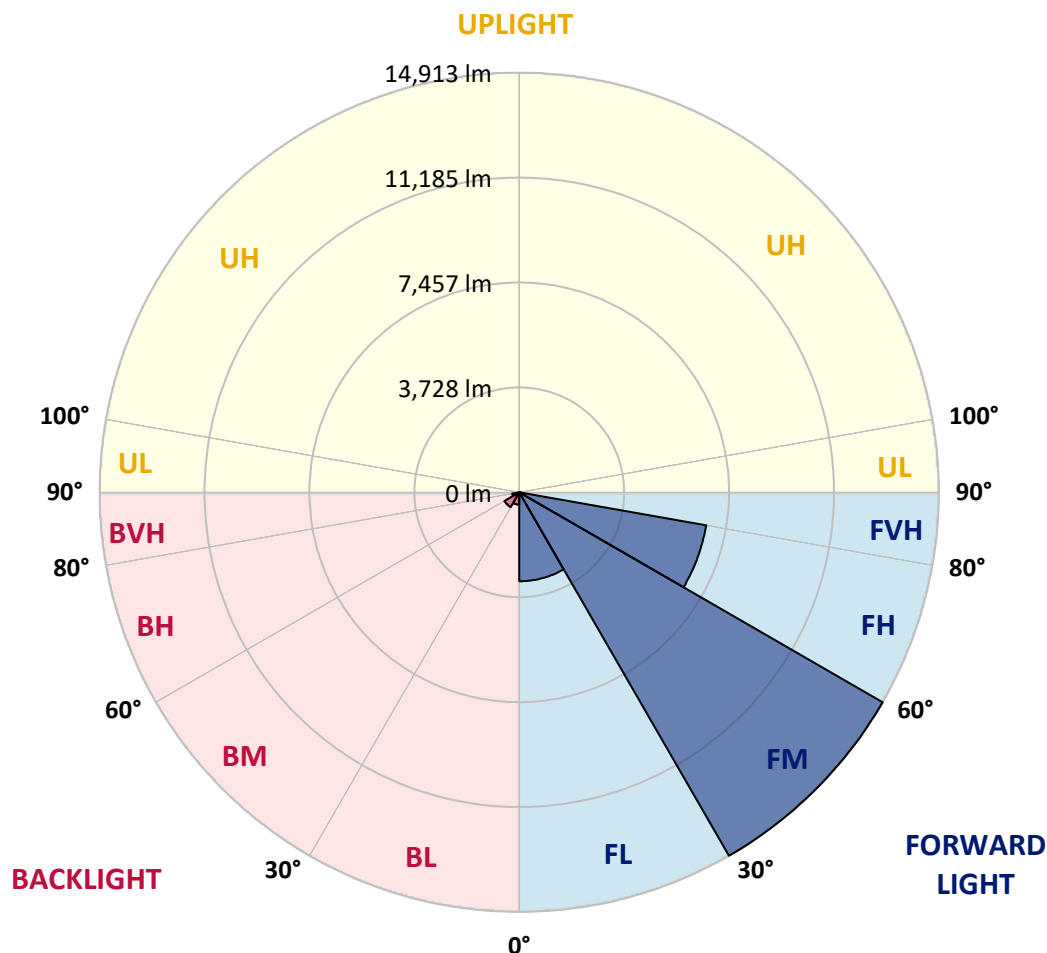
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.6	12.1			
FM	(30°-60°)	14913.1	57.0			
FH	(60°-80°)	6746.9	25.8			G3/7500
FVH	(80°-90°)	58.4	0.2			G1/100
BL	(0°-30°)	438.4	1.7	B1/500		
BM	(30°-60°)	608.4	2.3	B1/1000		
BH	(60°-80°)	251.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	3314.9	3240.4	3257.6	3209.4	3122.2	2943.3	2790.7	2646.2	2477.6	2471.9	2333.1
5°	4470.0	4406.9	4398.9	4301.4	4143.1	3839.1	3543.2	3206.0	2829.7	2802.2	2507.4
7.5°	5518.4	5467.9	5449.5	5333.7	5038.9	4743.0	4357.6	3862.1	3273.6	3223.2	2742.6
10°	6323.6	6299.5	6304.1	6221.5	5969.2	5693.9	5188.0	4556.0	3777.2	3699.2	3024.7
12.5°	6933.8	6939.5	6980.8	6930.4	6789.3	6585.1	6044.9	5295.8	4334.6	4228.0	3347.0
15°	7382.3	7411.0	7486.7	7549.8	7539.4	7362.8	6867.3	6047.1	4926.5	4808.4	3706.1
17.5°	7672.5	7704.6	7814.7	7954.7	8083.1	8041.8	7661.0	6772.1	5525.2	5388.8	4090.3
20°	7927.1	7965.0	8083.1	8267.8	8507.5	8559.1	8309.1	7475.2	6122.9	5956.5	4487.2
22.5°	8478.9	8477.7	8550.0	8657.8	8886.1	9019.1	8860.8	8127.9	6713.6	6540.4	4892.1
25°	9476.8	9438.9	9413.7	9328.8	9379.3	9461.9	9373.5	8738.1	7307.7	7132.2	5302.7
27.5°	10662.8	10685.7	10481.6	10253.3	10076.7	9991.8	9847.3	9303.6	7879.0	7686.3	5704.2
30°	11914.2	11921.1	11680.2	11388.9	11000.0	10677.7	10427.7	9843.8	8466.2	8256.3	6094.2
32.5°	13042.9	12998.2	12759.6	12362.7	11871.8	11509.3	10989.7	10447.2	9087.9	8884.9	6527.8
35°	13937.6	13884.8	13594.6	13233.3	12724.0	12359.3	11734.1	11049.4	9741.7	9543.3	6962.5
37.5°	14591.4	14529.4	14231.2	13859.6	13420.3	13208.1	12597.8	11704.3	10455.2	10241.8	7420.1
40°	14818.5	14764.6	14577.6	14305.8	13952.5	13904.3	13514.3	12457.9	11231.7	11004.6	7938.6
42.5°	14683.1	14630.4	14563.9	14472.1	14325.3	14371.2	14379.2	13317.0	12094.3	11870.6	8511.0
45°	14146.3	14099.3	14168.1	14302.3	14484.7	14711.8	15168.3	14240.4	13057.8	12819.2	9172.8
47.5°	13356.0	13321.6	13512.0	13847.0	14380.3	15006.6	15889.8	15210.8	14139.5	13918.1	9998.7
50°	12231.9	12226.2	12607.0	13218.4	14038.5	15148.8	16635.4	16314.2	15642.1	15409.2	11146.9
52.5°	10481.6	10493.0	11242.1	12220.5	13438.6	15052.5	17114.9	17732.0	17390.1	17148.1	12141.3
55°	8814.9	8883.8	9414.8	10825.7	12518.7	14694.6	17280.0	18393.8	18354.8	18125.4	12694.2
57.5°	7182.7	7307.7	7819.3	9137.3	11175.5	13869.9	17189.4	18680.6	19072.8	18897.3	13423.7
60°	5414.0	5471.3	6060.9	7292.8	9451.5	12365.0	16532.2	18836.5	20054.7	19933.1	14482.4
62.5°	3444.5	3587.9	4111.0	5299.3	7359.4	10275.1	15424.1	18834.3	21283.2	21349.7	15848.5
65°	1814.6	1982.1	2259.7	3284.0	5057.3	7940.9	13757.5	18657.6	22790.4	22883.3	16916.4
67.5°	978.4	1026.6	1173.4	1704.5	2933.0	5379.6	11308.6	17785.9	23663.3	23786.0	17065.5
70°	715.7	742.1	797.2	942.9	1476.2	3124.5	8251.7	15809.5	22538.0	22492.1	15162.6
72.5°	549.4	590.7	632.0	690.5	848.8	1667.8	5137.6	12379.9	17983.2	17680.3	11333.8
75°	433.6	440.5	499.0	551.7	636.6	949.7	2281.4	7210.2	10975.9	10259.0	5877.4
77.5°	346.4	351.0	385.4	431.3	511.6	624.0	706.6	2836.6	3504.2	3126.8	1275.5
80°	205.3	216.8	286.8	332.6	424.4	393.4	258.1	616.0	547.1	495.5	214.5
82.5°	114.7	123.9	161.7	262.7	295.9	188.1	128.5	166.3	128.5	125.0	60.8
85°	0.0	5.7	104.4	162.9	120.4	41.3	53.9	55.1	37.9	35.6	24.1
87.5°	0.0	0.0	32.1	31.0	4.6	6.9	12.6	18.4	14.9	14.9	12.6
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°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	2264.2	2202.3	2085.3	1970.6	1874.2	1795.1	1724.0	1695.3	1672.4	1668.9	1650.6
5°	2365.2	2240.2	2016.5	1833.0	1710.2	1623.0	1548.5	1502.6	1467.1	1453.3	1440.7
7.5°	2517.7	2328.5	2007.3	1796.3	1649.4	1502.6	1365.0	1215.9	1122.9	1087.4	1066.7
10°	2703.6	2445.5	2041.7	1785.9	1529.0	1219.3	991.0	801.8	724.9	699.7	692.8
12.5°	2920.3	2591.1	2101.4	1721.7	1272.1	866.0	683.6	619.4	602.2	594.2	594.2
15°	3169.2	2750.6	2143.8	1535.9	940.6	655.0	591.9	562.0	543.7	533.4	534.5
17.5°	3423.9	2906.6	2123.2	1266.3	694.0	582.7	535.7	503.5	478.3	468.0	465.7
20°	3680.8	3051.1	2008.5	942.9	587.3	528.8	476.0	440.5	415.2	404.9	402.6
22.5°	3946.9	3173.8	1806.6	691.7	527.6	469.1	417.5	382.0	357.9	348.7	344.1
25°	4206.2	3273.6	1524.4	559.8	471.4	412.9	363.6	330.3	308.6	299.4	298.2
27.5°	4448.2	3336.7	1197.5	494.4	422.1	362.5	317.7	287.9	269.6	262.7	261.5
30°	4666.1	3342.4	885.5	446.2	378.5	318.9	277.6	251.2	235.1	228.3	226.0
32.5°	4886.4	3294.3	644.6	402.6	338.4	281.0	240.9	220.2	208.8	203.0	203.0
35°	5094.0	3183.0	502.4	364.8	299.4	244.3	212.2	197.3	190.4	184.7	184.7
37.5°	5297.0	3023.6	426.7	331.5	262.7	213.3	187.0	177.8	172.1	166.3	166.3
40°	5503.5	2822.8	387.7	300.5	232.8	189.3	166.3	158.3	152.6	148.0	146.8
42.5°	5757.0	2591.1	362.5	271.8	206.5	167.5	146.8	137.6	133.1	128.5	126.2
45°	6050.6	2391.6	341.8	243.2	184.7	149.1	127.3	118.1	111.3	105.5	104.4
47.5°	6473.8	2247.0	314.3	212.2	164.0	129.6	110.1	99.8	89.5	83.7	82.6
50°	7014.1	2127.7	278.7	184.7	143.4	110.1	91.8	79.1	70.0	64.2	64.2
52.5°	7282.5	1971.7	246.6	160.6	120.4	92.9	74.6	59.6	55.1	49.3	49.3
55°	7390.3	1852.5	214.5	136.5	99.8	76.9	58.5	45.9	42.4	39.0	37.9
57.5°	7693.1	1818.0	187.0	115.9	82.6	60.8	44.7	34.4	32.1	27.5	27.5
60°	8180.6	1835.3	161.7	98.6	66.5	47.0	33.3	26.4	24.1	19.5	19.5
62.5°	8707.1	1813.5	136.5	84.9	51.6	34.4	22.9	19.5	19.5	11.5	10.3
65°	8808.1	1615.0	117.0	70.0	40.1	25.2	14.9	12.6	17.2	2.3	0.0
67.5°	8174.9	1252.6	100.9	53.9	29.8	19.5	11.5	5.7	14.9	0.0	0.0
70°	6536.9	796.0	81.4	39.0	22.9	16.1	9.2	2.3	11.5	0.0	0.0
72.5°	4622.5	462.3	64.2	27.5	19.5	12.6	6.9	0.0	6.9	0.0	0.0
75°	2337.6	246.6	40.1	20.6	14.9	9.2	4.6	0.0	1.1	0.0	0.0
77.5°	505.8	114.7	25.2	14.9	10.3	5.7	2.3	0.0	0.0	0.0	0.0
80°	110.1	50.5	16.1	9.2	5.7	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	40.1	26.4	8.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.8	13.8	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	1.1	1.1	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)