

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: P197154

Luminaire Tested: **NVN-AF-06-LED-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-06-LED-U-SL4-8030
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28042 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

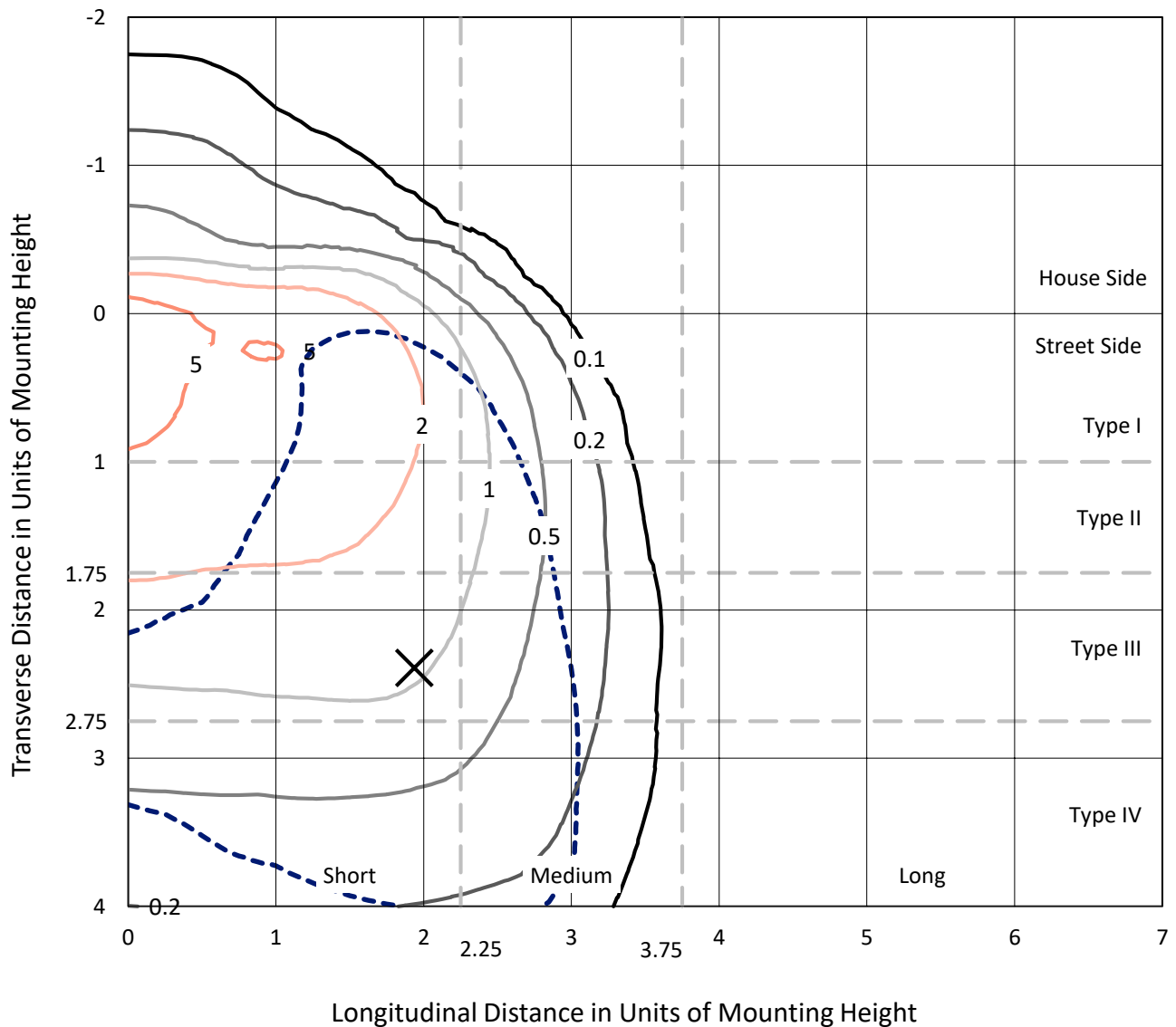
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

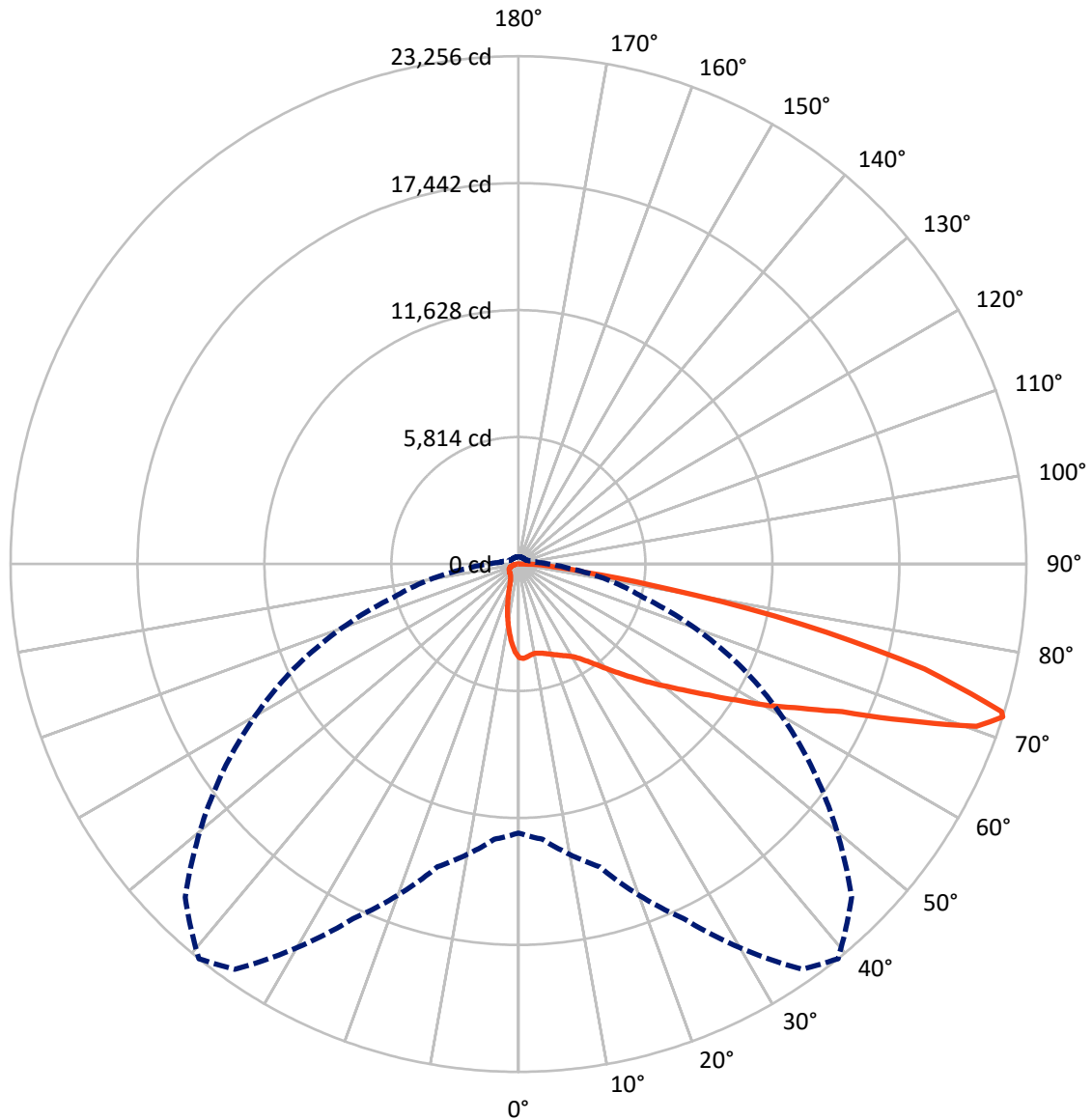
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3215.4	0.0	3215.4
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	24826.6	0.0	24826.6
	% Fixture	88.5	0.0	88.5
Total	Lumens	28042.0	0.0	28042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	1.3
10°-20°	924.8	3.3
20°-30°	1441.1	5.1
30°-40°	2218.9	7.9
40°-50°	3617.3	12.9
50°-60°	5620.9	20.0
60°-70°	7523.4	26.8
70°-80°	5410.4	19.3
80°-90°	917.2	3.3
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°	28042.0	100.0
0°-180°	28042.0	100.0

Coefficient of Utilization



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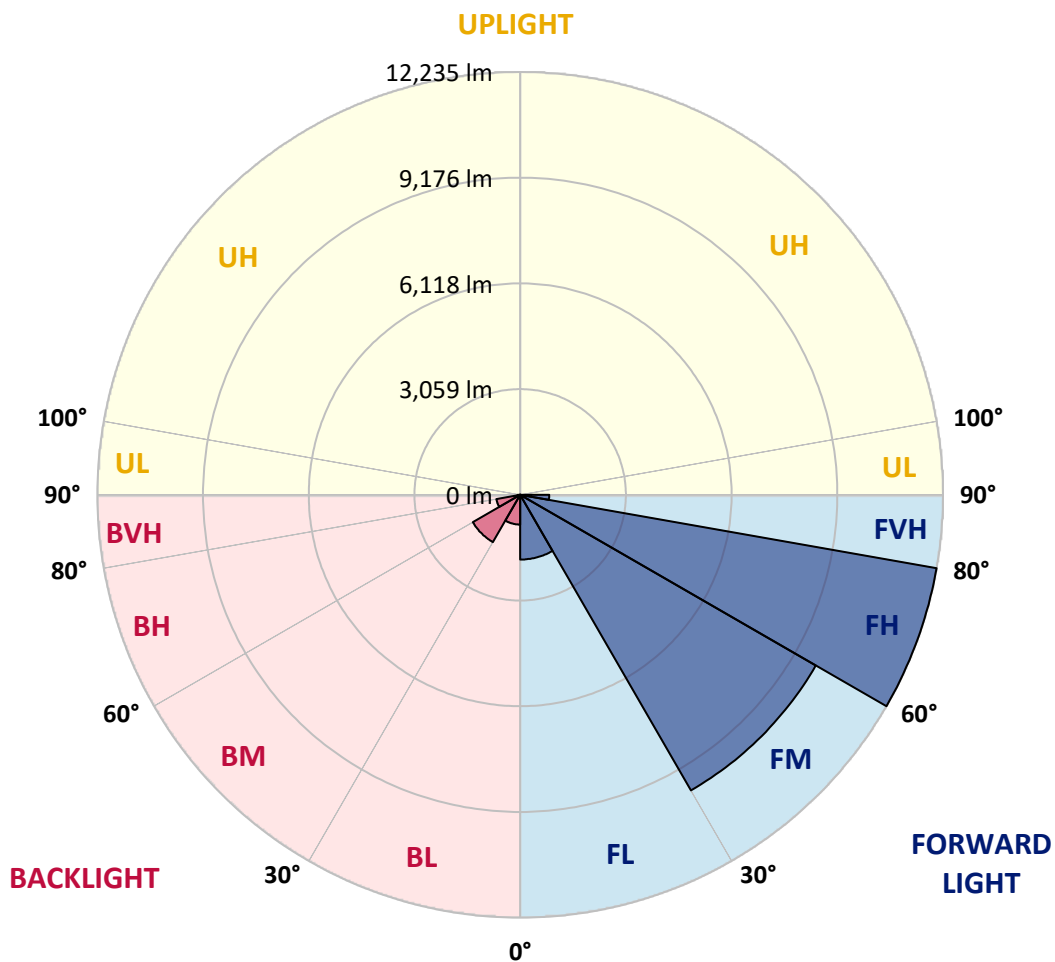
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.2	6.7			
FM	(30°-60°)	9876.9	35.2			
FH	(60°-80°)	12235.2	43.6			G5
FVH	(80°-90°)	841.4	3.0			G5
BL	(0°-30°)	860.8	3.1	B2/1000		
BM	(30°-60°)	1580.2	5.6	B2/2500		
BH	(60°-80°)	698.6	2.5	B2/1000		G2/1000
BVH	(80°-90°)	75.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5
2.5°	4374.8	4376.6	4371.0	4354.0	4339.0	4331.5	4318.3	4295.7	4265.6	4244.9	4227.9
5°	4333.3	4339.0	4335.2	4307.0	4280.6	4265.6	4244.9	4212.9	4173.3	4156.4	4116.9
7.5°	4301.3	4305.1	4293.8	4261.8	4211.0	4192.2	4154.5	4113.1	4077.3	4052.9	4005.8
10°	4278.8	4282.5	4273.1	4241.1	4184.6	4162.0	4116.9	4071.7	4024.6	3994.5	3941.8
12.5°	4246.8	4254.3	4254.3	4239.2	4201.6	4186.5	4141.3	4092.4	4049.1	4017.1	3951.2
15°	4241.1	4250.5	4267.5	4265.6	4254.3	4243.0	4207.2	4158.3	4120.6	4083.0	4002.0
17.5°	4288.2	4308.9	4342.8	4354.0	4346.5	4322.0	4280.6	4235.5	4194.0	4158.3	4058.5
20°	4406.8	4418.1	4468.9	4491.5	4453.8	4418.1	4363.5	4305.1	4267.5	4239.2	4111.2
22.5°	4585.6	4600.6	4642.1	4643.9	4564.9	4521.6	4451.9	4380.4	4344.6	4333.3	4182.7
25°	4871.7	4868.0	4879.2	4832.2	4689.1	4638.3	4553.6	4470.8	4446.3	4468.9	4288.2
27.5°	5214.3	5204.9	5169.1	5046.8	4830.3	4764.4	4662.8	4589.4	4589.4	4642.1	4431.2
30°	5609.6	5600.2	5483.5	5278.3	4997.8	4922.5	4815.2	4738.1	4777.6	4879.2	4625.1
32.5°	6027.5	5993.6	5829.9	5555.0	5236.9	5154.1	5050.5	4971.5	5046.8	5220.0	4903.7
35°	6421.0	6402.1	6200.7	5875.0	5545.6	5476.0	5404.4	5306.6	5427.0	5696.2	5297.1
37.5°	6827.6	6812.5	6565.9	6219.5	5922.1	5875.0	5814.8	5747.0	5940.9	6294.8	5829.9
40°	7281.2	7251.1	6940.5	6594.1	6360.7	6338.1	6306.1	6287.3	6599.8	7126.9	6503.8
42.5°	7795.1	7736.8	7335.8	7006.4	6838.9	6857.7	6840.7	6916.0	7394.2	8086.9	7305.7
45°	8382.4	8265.7	7729.2	7445.0	7367.8	7443.1	7478.9	7670.9	8333.5	9195.6	8201.7
47.5°	8932.1	8781.5	8160.3	7921.2	7964.5	8094.4	8196.1	8534.9	9363.2	10291.2	9116.6
50°	9438.5	9269.1	8621.5	8414.4	8625.3	8809.7	9020.6	9498.7	10458.8	11418.8	9956.1
52.5°	9813.1	9690.7	9082.7	8952.8	9383.9	9628.6	9965.6	10569.8	11565.6	12493.7	10705.4
55°	10103.0	10037.1	9532.6	9570.2	10242.3	10592.4	11000.9	11695.5	12736.5	13457.5	11307.7
57.5°	10438.0	10389.1	10046.5	10315.7	11307.7	11748.2	12230.1	13001.9	13850.9	14306.4	11780.2
60°	10791.9	10791.9	10618.8	11213.6	12640.5	13145.0	13625.0	14225.5	14961.5	15070.7	11972.2
62.5°	11059.2	11128.9	11191.0	12169.9	13905.5	14532.3	15059.4	15635.4	16111.7	15447.2	11520.4
65°	11447.0	11595.7	11945.9	13274.9	15471.7	16292.4	17003.9	17487.7	17043.5	15147.9	10046.5
67.5°	12113.4	12333.6	13079.1	14920.1	17869.9	19099.1	19789.9	18954.1	16860.9	13263.6	7695.4
70°	12713.9	13024.5	14298.9	17007.7	20987.2	22263.4	21945.3	18613.4	14684.8	9722.7	4734.3
72°	12314.8	12653.7	14355.4	17916.9	22653.1	23255.5	21578.2	16495.7	11347.3	5933.4	2334.2
72.5°	12053.2	12405.2	14172.8	17894.3	22698.3	23129.4	21068.1	15654.2	10300.6	5191.7	1888.1
75°	10069.1	10370.3	12186.8	15859.4	20002.6	19212.0	16441.1	10131.2	4734.3	1677.2	971.3
77.5°	6575.3	6805.0	8403.1	10987.7	14010.9	13250.4	10007.0	4743.7	1775.1	1018.4	730.4
80°	3303.7	3467.4	4497.1	5777.2	7561.7	6957.4	4619.5	2294.7	1187.8	736.0	574.1
82.5°	2298.4	2449.0	3096.6	2949.8	3160.6	3058.9	2172.3	1914.4	888.5	465.0	301.2
85°	1927.6	2083.8	2562.0	2102.7	1720.5	1568.1	1556.8	1809.0	587.3	229.7	254.1
87.5°	1681.0	1918.2	2114.0	1536.1	1180.3	1041.0	1146.4	1658.4	186.4	126.1	77.2
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°	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5
2.5°	4199.7	4194.0	4165.8	4122.5	4090.5	4069.8	4030.3	4028.4	4032.2	3998.3	4011.4
5°	4081.1	4058.5	3985.1	3885.3	3804.4	3727.2	3642.5	3614.3	3589.8	3539.0	3544.6
7.5°	3956.9	3917.3	3789.3	3625.6	3469.3	3326.2	3185.1	3115.4	3062.7	2996.8	2996.8
10°	3883.4	3821.3	3625.6	3386.5	3138.0	2929.1	2718.2	2592.1	2499.9	2415.2	2409.5
12.5°	3879.7	3785.6	3512.6	3183.2	2842.5	2548.8	2260.8	2066.9	1929.5	1829.7	1820.3
15°	3909.8	3778.0	3418.5	2993.1	2563.9	2181.7	1826.0	1579.4	1404.3	1293.2	1281.9
17.5°	3936.2	3768.6	3316.8	2793.5	2292.8	1827.8	1432.5	1176.5	1010.9	920.5	911.1
20°	3960.6	3747.9	3186.9	2582.7	1993.5	1496.5	1120.0	913.0	803.8	753.0	747.3
22.5°	3996.4	3729.1	3051.4	2345.5	1699.8	1217.9	924.3	775.6	717.2	692.7	689.0
25°	4054.7	3731.0	2919.6	2102.7	1430.6	1014.6	800.0	707.8	675.8	658.8	658.8
27.5°	4139.5	3753.6	2789.8	1856.1	1202.9	875.3	726.6	672.0	651.3	638.1	634.4
30°	4263.7	3795.0	2652.3	1622.7	1022.2	779.3	683.3	649.4	632.5	621.2	619.3
32.5°	4444.4	3868.4	2507.4	1409.9	884.7	711.6	651.3	630.6	617.4	608.0	606.1
35°	4713.6	3998.3	2366.2	1229.2	786.9	662.6	625.0	608.0	600.5	596.7	594.8
37.5°	5108.9	4207.2	2232.6	1088.0	722.9	630.6	598.6	589.2	585.4	585.4	585.4
40°	5605.9	4482.1	2112.1	988.3	687.1	606.1	579.8	572.3	572.3	574.1	574.1
42.5°	6210.1	4826.5	2008.5	920.5	666.4	589.2	566.6	562.8	561.0	561.0	562.8
45°	6912.3	5233.1	1944.5	867.8	651.3	579.8	557.2	555.3	547.8	544.0	544.0
47.5°	7618.2	5668.0	1940.8	837.7	632.5	568.5	547.8	547.8	532.7	525.2	527.1
50°	8277.0	6057.6	1982.2	830.1	621.2	551.6	538.4	540.3	519.5	510.1	508.3
52.5°	8807.9	6355.1	2033.0	839.6	621.2	536.5	521.4	530.8	508.3	497.0	495.1
55°	9218.2	6562.1	2051.8	860.3	628.7	523.3	506.4	521.4	504.5	489.4	489.4
57.5°	9511.9	6628.0	1970.9	869.7	640.0	521.4	491.3	519.5	510.1	491.3	491.3
60°	9404.6	6245.9	1669.7	833.9	638.1	517.7	480.0	523.3	529.0	508.3	508.3
62.5°	8566.9	5225.6	1340.3	753.0	606.1	504.5	466.8	519.5	542.1	534.6	530.8
65°	6974.4	3832.6	1039.1	657.0	551.6	476.3	438.6	485.7	512.0	519.5	521.4
67.5°	4915.0	2426.4	807.6	559.1	483.8	434.8	406.6	429.2	438.6	442.4	449.9
70°	2688.1	1313.9	641.9	470.6	414.1	393.4	372.7	374.6	370.8	367.1	370.8
72°	1349.7	858.4	542.1	408.5	367.1	353.9	344.5	338.8	338.8	333.2	335.1
72.5°	1161.5	798.1	523.3	393.4	355.8	344.5	337.0	331.3	329.4	325.7	327.5
75°	773.7	632.5	436.7	329.4	303.1	295.5	299.3	293.7	295.5	291.8	293.7
77.5°	625.0	544.0	370.8	278.6	259.8	248.5	256.0	257.9	261.7	257.9	256.0
80°	523.3	463.1	310.6	229.7	216.5	207.1	210.8	224.0	225.9	214.6	212.7
82.5°	338.8	372.7	244.7	178.8	165.7	161.9	171.3	184.5	188.2	173.2	169.4
85°	284.2	299.3	176.9	122.4	109.2	105.4	124.2	137.4	146.8	131.8	128.0
87.5°	79.1	146.8	86.6	58.4	48.9	48.9	60.2	71.5	84.7	86.6	86.6
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)