

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: P653267

Luminaire Tested: **GLAN-SA3D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19386.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

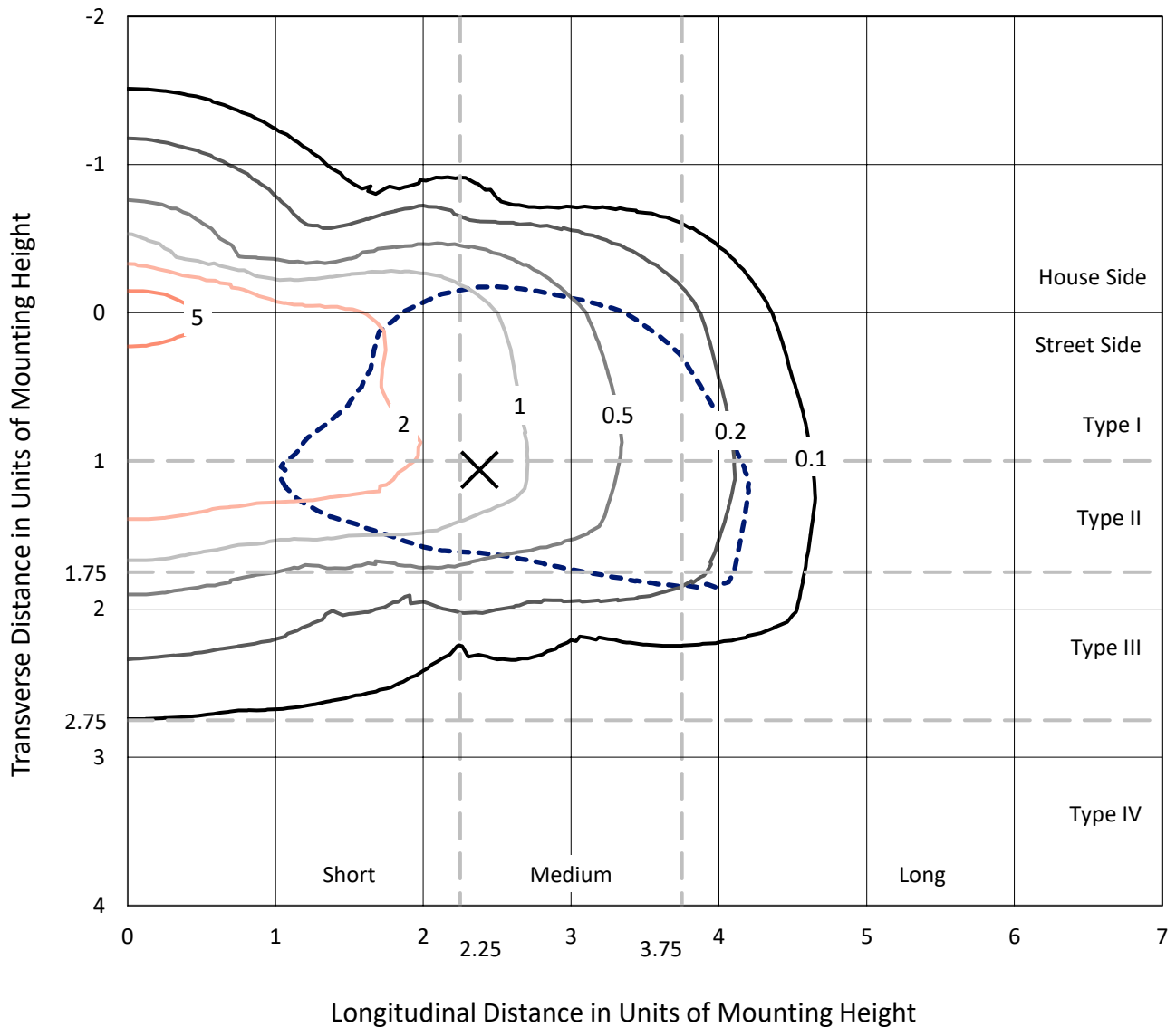
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

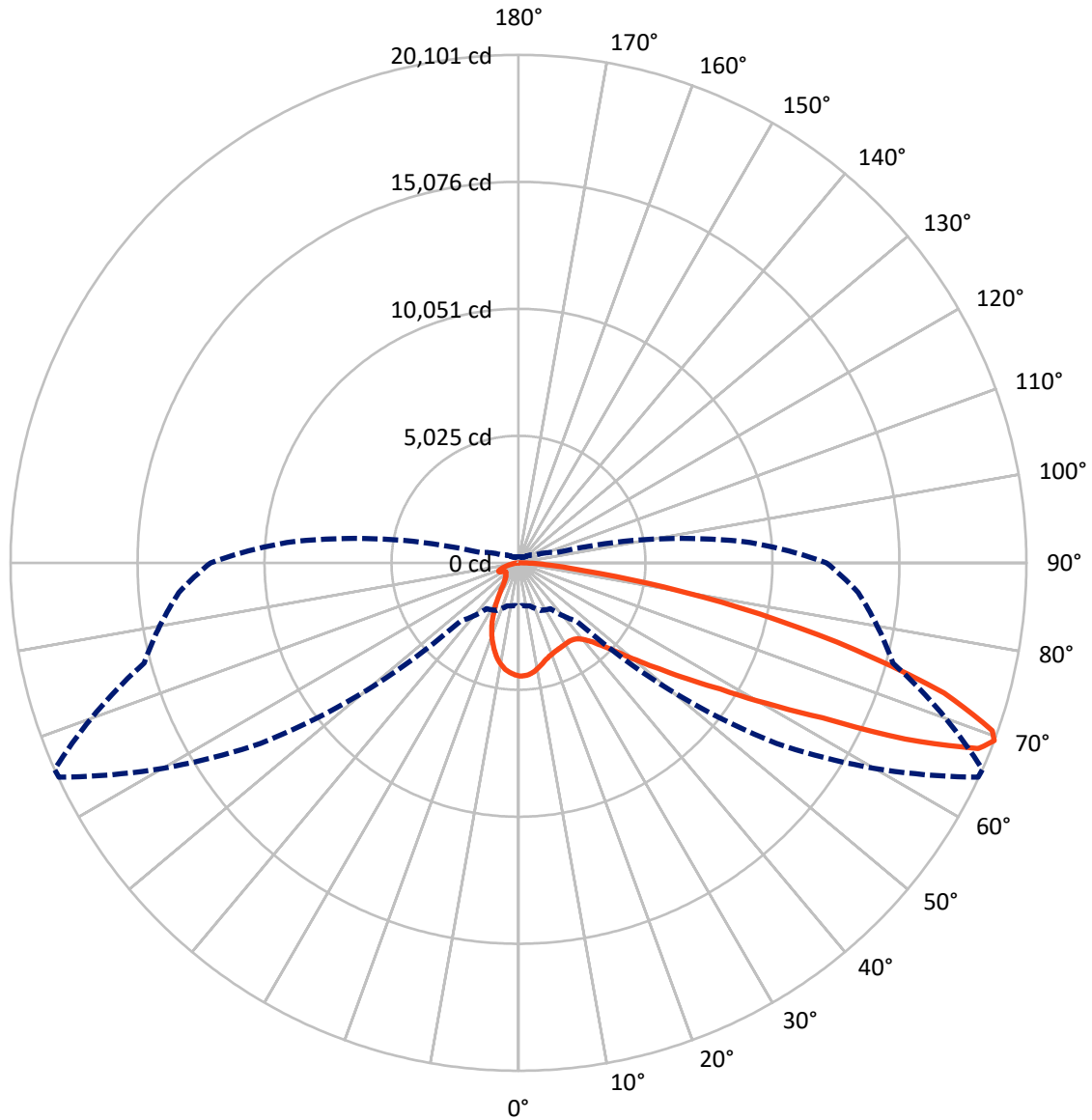
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3645.9	0.0	3645.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15740.8	0.0	15740.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	19386.7	0.0	19386.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.8	2.0
10°-20°	922.1	4.8
20°-30°	1255.4	6.5
30°-40°	1686.9	8.7
40°-50°	2518.9	13.0
50°-60°	4006.7	20.7
60°-70°	4928.0	25.4
70°-80°	3206.4	16.5
80°-90°	473.5	2.4
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°	19386.7	100.0
0°-180°	19386.7	100.0

Coefficient of Utilization

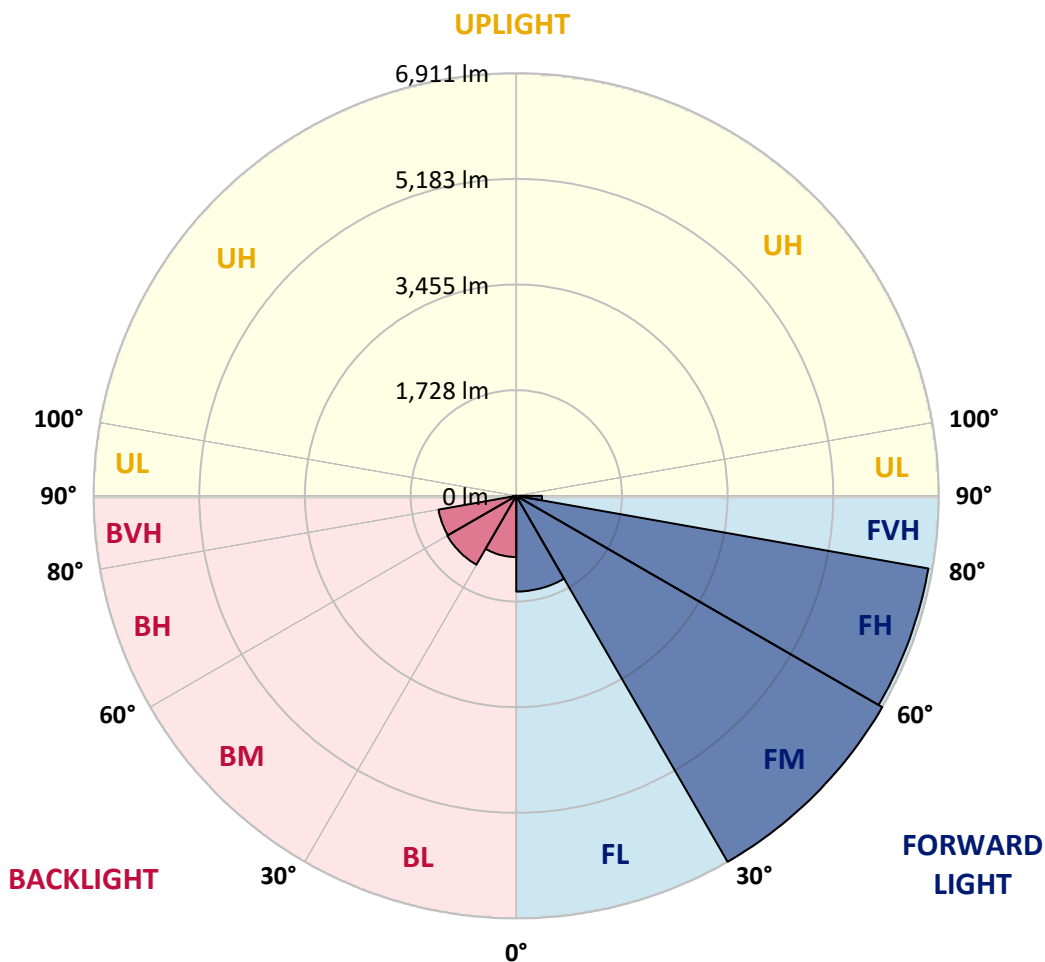


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.5	8.1			
FM (30°-60°)	6910.8	35.6			
FH (60°-80°)	6843.6	35.3			G3/7500
FVH (80°-90°)	421.0	2.2			G3/500
BL (0°-30°)	1000.8	5.2	B3/2500		
BM (30°-60°)	1301.7	6.7	B2/2500		
BH (60°-80°)	1290.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	52.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9
2.5°	4320.2	4337.4	4356.7	4378.2	4419.0	4441.5	4457.6	4475.9	4478.0	4487.7	4480.2
5°	4001.3	4021.7	4050.7	4091.5	4152.7	4248.2	4347.0	4427.5	4437.2	4482.3	4495.1
7.5°	3735.0	3746.9	3770.5	3836.0	3922.9	4029.2	4173.1	4336.3	4359.9	4467.3	4504.8
10°	3518.2	3530.0	3557.9	3625.6	3711.4	3844.5	4002.4	4217.1	4236.5	4421.1	4507.0
12.5°	3356.1	3366.9	3396.9	3463.5	3562.2	3686.8	3860.7	4088.3	4116.2	4359.9	4486.6
15°	3232.6	3253.0	3277.7	3332.5	3436.6	3556.8	3725.4	3970.2	3992.7	4295.5	4472.6
17.5°	3180.0	3189.7	3206.9	3257.4	3333.6	3451.6	3621.3	3877.9	3904.7	4250.4	4469.4
20°	3182.2	3191.8	3195.0	3223.0	3277.7	3379.7	3547.2	3804.9	3837.1	4210.7	4474.8
22.5°	3255.2	3256.3	3244.4	3234.7	3256.3	3341.0	3494.6	3750.1	3787.7	4193.5	4479.1
25°	3367.9	3387.2	3370.1	3325.0	3285.2	3326.1	3474.2	3720.1	3755.5	4168.8	4473.7
27.5°	3550.4	3553.6	3539.7	3478.5	3375.4	3345.3	3465.6	3697.5	3727.6	4150.6	4446.9
30°	3795.2	3785.5	3772.6	3705.0	3542.9	3419.4	3483.8	3677.1	3708.2	4123.8	4414.7
32.5°	4043.2	4073.3	4061.4	3982.0	3771.5	3563.3	3542.9	3674.9	3700.7	4103.3	4379.3
35°	4306.3	4320.2	4376.0	4335.2	4119.4	3796.3	3653.5	3708.2	3728.7	4104.4	4354.5
37.5°	4512.4	4550.0	4680.9	4716.3	4513.5	4104.4	3832.8	3802.7	3811.3	4157.0	4364.2
40°	4761.4	4825.8	4994.4	5139.4	5006.2	4504.8	4137.6	3977.7	3988.4	4283.7	4427.5
42.5°	5077.1	5122.2	5348.7	5545.1	5523.7	5034.1	4507.0	4264.4	4269.8	4536.0	4604.7
45°	5446.4	5510.8	5765.2	6060.5	6111.0	5633.2	5040.6	4698.1	4694.9	4927.8	4935.3
47.5°	5918.8	5958.5	6210.8	6532.9	6736.9	6385.8	5687.9	5320.8	5286.4	5499.0	5437.8
50°	6353.6	6415.9	6607.0	6959.1	7466.9	7267.2	6539.4	6128.1	6047.6	6246.3	6143.2
52.5°	6536.1	6601.6	6762.6	7199.6	8092.9	8407.4	7620.5	7091.1	6957.0	7109.4	7071.8
55°	6219.4	6304.2	6454.5	6985.9	8367.7	9722.5	9078.4	8204.5	8106.8	8041.3	8052.1
57.5°	5368.0	5448.6	5651.4	6237.6	8039.1	10677.0	11160.2	9635.6	9426.3	9124.6	9176.1
60°	4086.2	4136.6	4241.8	4891.3	7065.4	10925.0	13524.2	11444.7	11311.5	10203.5	10240.0
62.5°	2902.0	2958.9	3031.9	3356.1	5172.7	10226.1	15375.1	13970.9	13495.2	11321.2	11285.7
65°	2356.6	2317.9	2405.9	2557.3	3035.1	7925.3	15791.6	17477.2	16822.4	12793.1	12301.4
67.5°	1937.8	1897.0	1984.0	2253.5	2308.3	4600.4	14290.8	19753.2	19622.3	14393.8	13333.1
69°	1715.6	1694.1	1770.4	2077.4	2216.0	3266.9	12449.5	20070.0	20101.1	15337.6	13492.0
70°	1546.0	1554.6	1628.7	1988.3	2174.1	2693.6	10640.5	19633.1	19897.1	15808.9	13320.3
72.5°	1138.0	1156.3	1259.3	1646.9	2134.3	2285.7	6332.1	17148.7	17615.8	15836.8	12185.4
75°	795.5	786.9	878.2	1240.1	2016.2	2265.3	3719.0	13262.2	13791.6	13688.5	10239.0
77.5°	520.7	534.6	607.6	876.1	1696.3	2248.2	2424.2	9409.1	9752.7	9154.6	6056.2
80°	367.2	366.1	406.9	598.0	1258.3	2160.1	1985.1	5930.6	5843.6	3597.6	1796.1
82.5°	210.4	225.5	272.7	420.8	841.7	1901.3	1826.2	2836.4	2589.5	1025.3	606.6
85°	117.0	122.4	162.1	254.4	491.7	1432.2	1594.3	1290.5	1217.4	428.4	260.9
87.5°	37.6	40.8	67.6	128.8	223.3	676.3	902.9	595.8	549.7	154.6	105.2
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°	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9	4476.9
2.5°	4483.4	4496.2	4461.9	4428.6	4398.6	4356.7	4319.1	4288.0	4266.5	4263.3	4252.5
5°	4498.4	4499.5	4434.0	4346.0	4260.1	4165.6	4067.9	3998.1	3932.6	3896.1	3877.9
7.5°	4509.1	4499.5	4381.4	4238.6	4073.3	3901.5	3729.7	3592.2	3486.0	3444.1	3460.2
10°	4504.8	4474.8	4302.0	4073.3	3832.8	3576.2	3329.3	3136.0	2958.9	2867.6	2869.7
12.5°	4481.3	4431.8	4183.8	3887.5	3534.3	3190.8	2812.8	2551.9	2346.9	2225.6	2188.0
15°	4460.8	4375.0	4045.4	3635.2	3196.1	2705.5	2244.9	1922.9	1751.0	1655.5	1654.4
17.5°	4439.4	4320.2	3894.0	3367.9	2807.5	2176.2	1693.1	1447.2	1366.7	1376.4	1360.2
20°	4416.8	4255.8	3736.1	3070.5	2334.0	1623.3	1267.9	1168.1	1190.6	1234.7	1241.1
22.5°	4391.0	4187.1	3566.5	2743.1	1835.9	1221.8	1028.5	1013.5	1071.4	1140.1	1149.8
25°	4351.3	4101.1	3352.9	2400.6	1416.1	984.5	900.8	911.5	968.4	1026.4	1032.8
27.5°	4295.5	3994.9	3137.1	1973.3	1063.9	845.0	823.4	837.4	865.3	900.8	909.4
30°	4220.3	3874.7	2889.1	1604.0	852.4	775.1	766.6	774.1	790.2	805.2	809.5
32.5°	4145.2	3758.7	2638.9	1228.2	760.1	729.0	720.4	720.4	720.4	722.5	723.6
35°	4075.4	3649.2	2370.5	956.6	711.8	692.5	680.7	667.8	665.7	658.1	658.1
37.5°	4036.7	3549.4	2084.9	800.9	676.3	662.5	646.3	624.9	613.0	614.1	612.0
40°	4044.3	3483.8	1825.1	712.9	647.4	632.3	607.6	583.0	575.4	575.4	573.3
42.5°	4129.1	3462.4	1576.0	666.7	619.5	602.3	571.1	548.6	544.3	543.3	545.4
45°	4324.5	3515.0	1352.7	636.6	595.8	570.1	538.9	518.6	514.3	514.3	513.2
47.5°	4705.6	3685.7	1192.8	617.3	578.7	545.4	513.2	492.8	485.3	483.2	483.2
50°	5298.2	4056.1	1073.6	600.1	557.2	522.8	489.5	465.9	454.1	453.0	452.0
52.5°	6121.7	4633.7	1027.4	587.3	533.6	499.2	462.7	440.2	425.1	421.9	419.7
55°	7084.8	5439.9	1090.8	577.6	508.9	472.4	434.8	411.2	397.2	390.8	389.7
57.5°	8200.2	6408.3	1331.3	564.7	486.4	443.4	406.9	383.2	368.3	360.7	358.6
60°	9201.9	7403.6	1751.0	557.2	467.0	412.3	374.7	353.2	339.3	331.8	330.7
62.5°	10302.3	8352.6	2252.5	577.6	458.4	382.2	344.6	325.3	313.5	306.0	306.0
65°	11477.9	9302.8	2584.1	646.3	471.3	358.6	312.4	296.3	285.6	280.2	279.1
67.5°	12270.3	9631.3	2129.0	717.2	503.5	332.8	281.3	268.4	262.0	256.6	256.6
69°	12184.3	9215.8	1570.7	735.5	513.2	319.9	264.1	254.4	245.8	243.7	241.5
70°	11912.8	8742.4	1316.2	723.6	505.7	308.1	253.4	241.5	234.1	231.9	230.9
72.5°	10610.5	7581.8	980.2	629.2	430.5	267.4	224.4	213.6	207.2	204.0	204.0
75°	8815.4	6196.8	765.5	500.3	337.1	225.5	192.2	183.6	178.2	176.1	175.0
77.5°	4940.7	3460.2	549.7	391.9	255.5	182.5	161.1	153.6	148.2	146.0	146.0
80°	1376.4	988.8	323.2	258.8	173.9	138.5	127.7	122.4	114.9	109.5	112.7
82.5°	518.6	428.4	184.7	155.7	110.6	92.3	89.1	84.8	81.6	74.1	74.1
85°	252.3	208.3	118.1	82.7	61.2	48.3	46.2	44.0	41.9	36.5	37.6
87.5°	87.0	92.3	51.6	30.0	18.2	11.8	9.7	5.4	5.4	5.4	5.4
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)