

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: P320097

Luminaire Tested: **GAN-SA3D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA 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: 22509 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

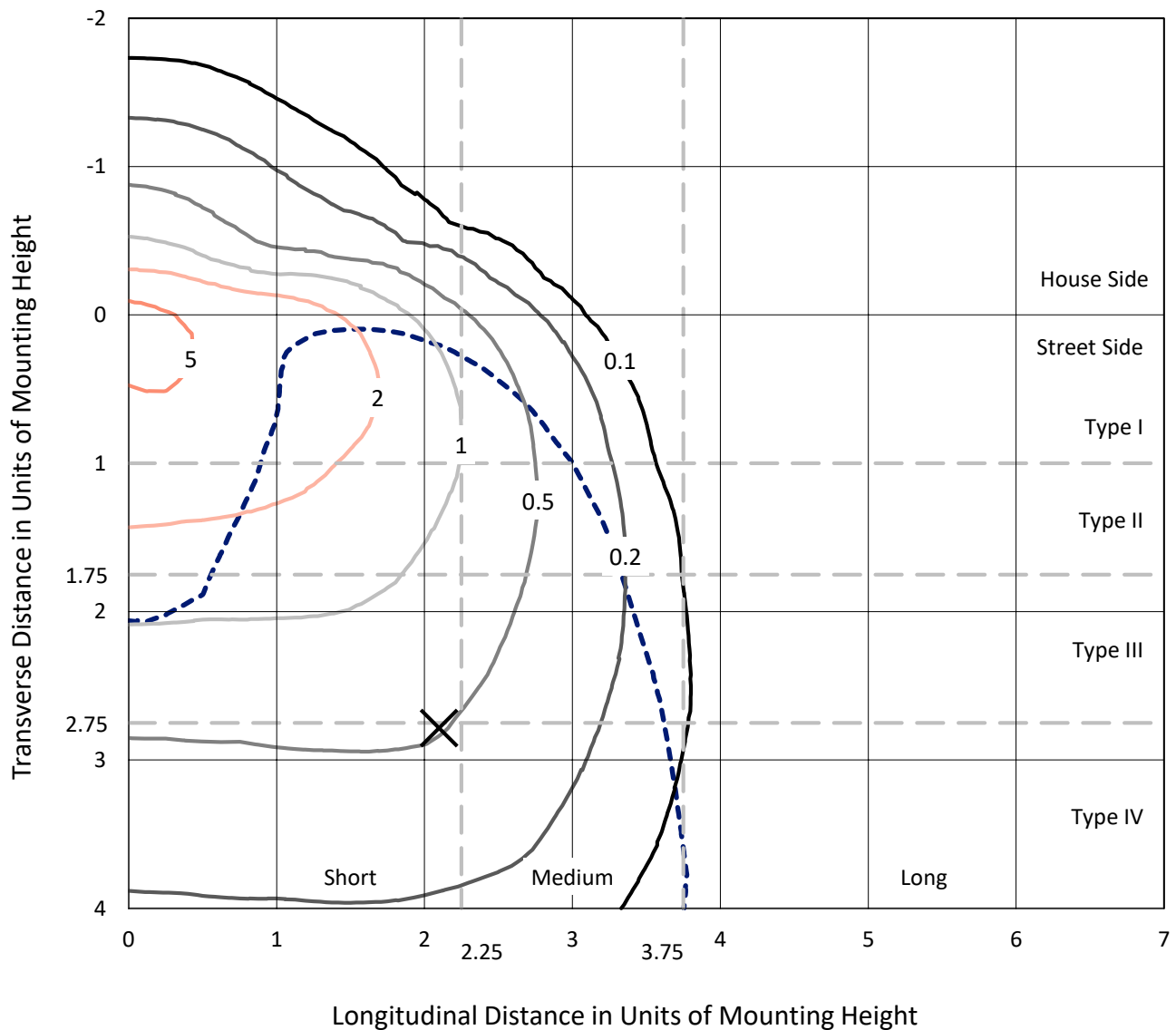
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

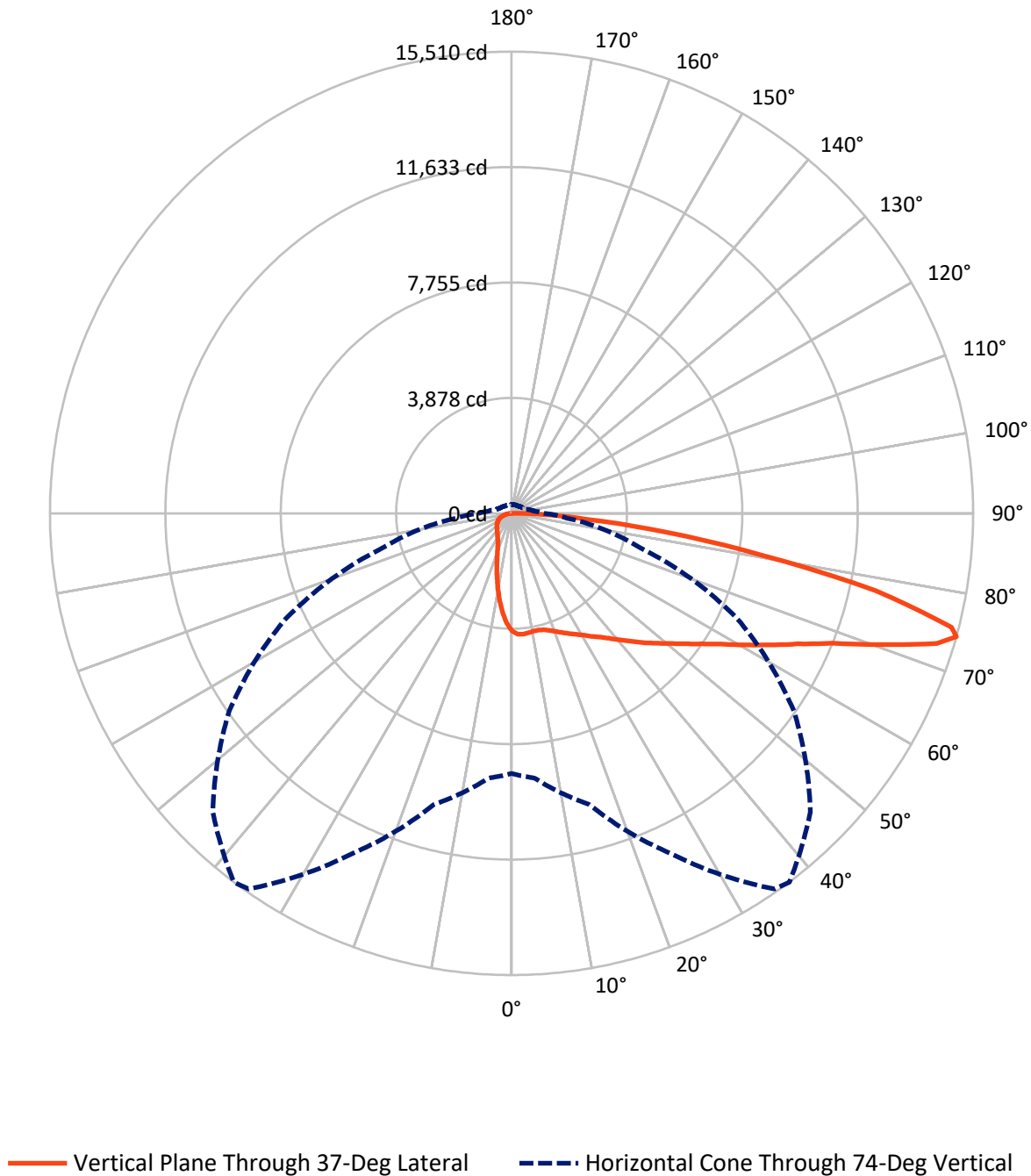
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3097.1	0.0	3097.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19411.9	0.0	19411.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	22509.0	0.0	22509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.6
10°-20°	895.2	4.0
20°-30°	1379.4	6.1
30°-40°	2005.8	8.9
40°-50°	2952.2	13.1
50°-60°	4145.8	18.4
60°-70°	5247.3	23.3
70°-80°	4620.5	20.5
80°-90°	913.6	4.1
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°	22509.0	100.0
0°-180°	22509.0	100.0

Coefficient of Utilization



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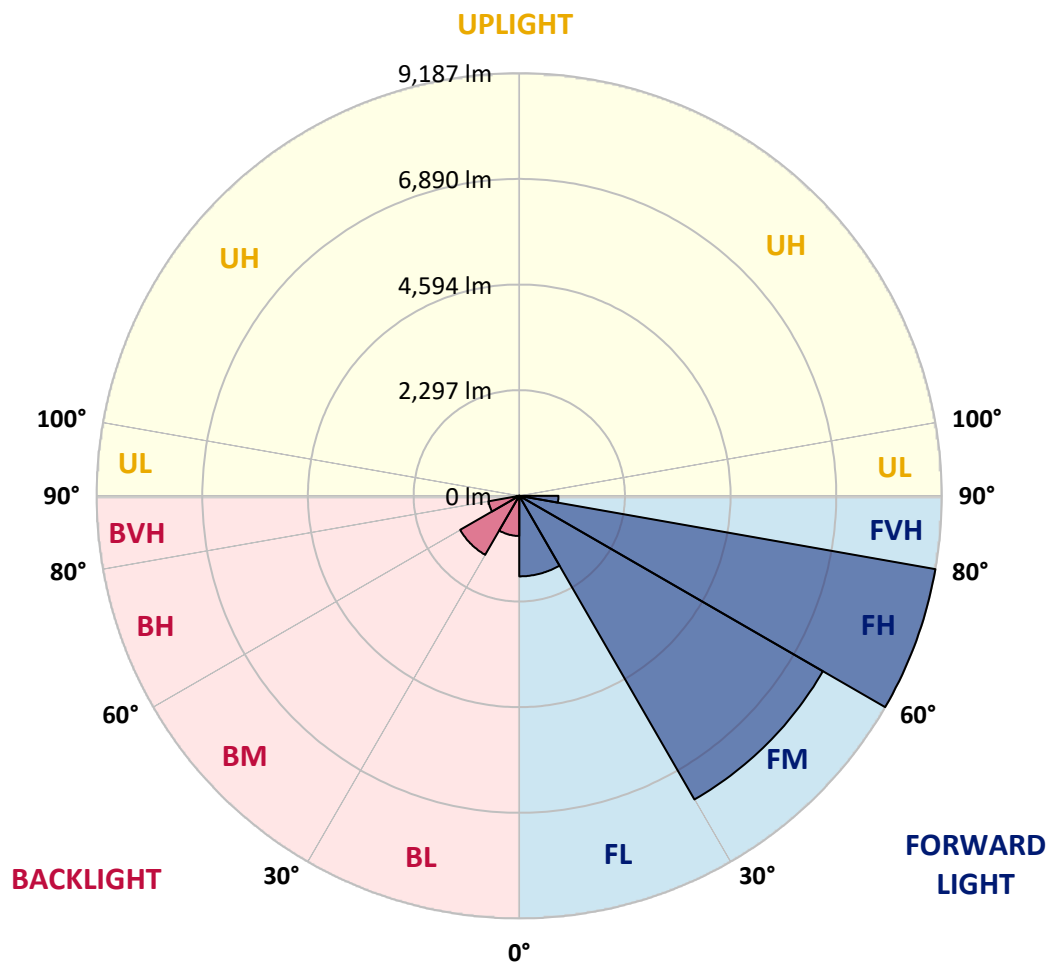
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1751.5	7.8			
FM	(30°-60°)	7621.7	33.9			
FH	(60°-80°)	9187.0	40.8			G4/12000
FVH	(80°-90°)	851.7	3.8			G5
BL	(0°-30°)	872.4	3.9	B2/1000		
BM	(30°-60°)	1482.1	6.6	B2/2500		
BH	(60°-80°)	680.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	61.9	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°	37°	45°	55°	65°	75°	85°
0°	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0
2.5°	4101.6	4102.4	4101.6	4095.2	4080.2	4067.5	4057.2	4042.1	4008.8	3983.4	3945.4
5°	4140.4	4135.7	4132.5	4120.6	4096.8	4082.6	4062.7	4034.2	3979.5	3928.7	3866.9
7.5°	4122.2	4116.6	4109.5	4095.2	4068.3	4056.4	4028.6	3991.4	3925.6	3859.0	3770.2
10°	4065.9	4064.3	4061.1	4058.0	4035.0	4025.5	4000.1	3960.4	3895.4	3814.6	3710.7
12.5°	4003.3	4007.2	4019.9	4036.6	4026.3	4021.5	4005.6	3978.7	3912.1	3824.9	3699.6
15°	3963.6	3974.7	4008.8	4052.4	4061.1	4059.6	4055.6	4038.2	3967.6	3870.9	3725.0
17.5°	3950.1	3968.4	4033.4	4105.5	4130.9	4136.5	4138.1	4107.9	4029.4	3927.1	3751.1
20°	3974.7	3997.7	4092.9	4192.0	4232.4	4235.6	4228.4	4176.1	4088.1	3975.5	3765.4
22.5°	4049.3	4069.9	4188.8	4300.6	4346.6	4351.3	4329.9	4250.6	4149.9	4032.6	3785.2
25°	4192.8	4218.1	4337.1	4448.9	4472.7	4473.4	4442.5	4344.2	4230.8	4112.7	3828.0
27.5°	4379.9	4405.3	4512.3	4621.7	4609.0	4601.9	4559.9	4461.6	4336.3	4222.9	3904.2
30°	4588.4	4616.2	4717.7	4795.4	4765.2	4751.0	4716.9	4590.0	4483.0	4373.5	4020.7
32.5°	4804.1	4829.4	4918.3	4971.4	4933.3	4927.0	4875.4	4759.7	4674.0	4603.5	4209.4
35°	5025.3	5043.5	5130.7	5160.9	5110.1	5108.5	5094.3	4988.0	4934.1	4967.4	4483.8
37.5°	5251.3	5256.0	5330.5	5332.1	5317.1	5323.4	5338.5	5271.9	5286.9	5390.8	4840.5
40°	5452.7	5465.3	5519.3	5535.9	5562.1	5584.3	5659.6	5616.0	5732.5	5916.5	5284.6
42.5°	5601.7	5626.3	5712.7	5755.5	5840.4	5875.3	5981.5	6021.9	6256.6	6532.6	5812.6
45°	5727.8	5765.8	5904.6	5992.6	6136.1	6197.2	6349.4	6485.0	6848.9	7201.0	6368.4
47.5°	5864.2	5912.5	6086.2	6254.3	6449.3	6518.3	6795.0	6998.0	7480.8	7873.3	6892.5
50°	6064.8	6102.0	6271.7	6535.7	6779.1	6867.9	7250.9	7541.9	8123.1	8514.0	7346.8
52.5°	6344.6	6330.4	6473.9	6844.2	7170.8	7280.2	7737.7	8120.7	8774.0	9093.6	7730.6
55°	6626.1	6602.3	6703.0	7166.9	7627.5	7742.5	8273.7	8701.9	9393.3	9615.3	8024.8
57.5°	6939.3	6894.1	6979.0	7530.8	8147.7	8284.8	8873.9	9319.5	10002.2	10037.1	8211.9
60°	7262.0	7201.0	7296.1	7981.9	8808.1	8969.9	9576.4	9922.1	10576.3	10374.9	8272.1
62.5°	7544.3	7501.5	7648.1	8485.4	9552.6	9730.3	10266.2	10562.8	11142.4	10515.2	8054.9
65°	7790.9	7798.0	8051.7	9051.5	10382.8	10572.3	11057.5	11352.5	11588.0	10432.0	7546.7
67.5°	8085.0	8125.5	8558.4	9796.9	11427.8	11635.6	12208.8	12213.6	11836.9	9943.5	6546.0
70°	8514.0	8597.2	9255.3	10830.8	12913.7	13199.1	13641.5	12719.4	11487.3	8619.4	5150.6
72.5°	8894.6	9050.0	9996.7	12013.8	14724.6	14941.1	14479.6	12427.6	10026.0	6459.6	3208.8
74°	8739.9	8932.6	10131.5	12596.5	15406.5	15510.4	14196.6	11576.1	8359.4	4473.4	1864.9
75°	8406.9	8616.3	9934.8	12591.0	15320.1	15262.2	13513.1	10603.2	6884.6	3051.0	1240.9
77.5°	6784.7	7005.9	8371.3	10791.1	12561.6	12506.9	10380.4	7112.9	3015.3	1000.6	630.3
80°	3944.6	4113.5	5196.6	6852.9	8470.4	8569.5	6826.7	3519.6	1186.2	562.2	427.4
82.5°	1752.3	1868.8	2510.3	3498.2	5111.7	5239.4	3575.1	1844.2	732.6	341.7	256.9
85°	1149.7	1236.1	1523.9	1665.8	2434.1	2521.4	1749.9	1435.9	483.7	187.9	188.7
87.5°	827.0	910.2	1132.2	988.7	1117.2	1057.7	952.3	1328.9	194.3	107.0	63.4
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°	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0	3966.0
2.5°	3928.7	3916.0	3887.5	3833.6	3803.5	3778.1	3736.1	3711.5	3700.4	3699.6	3704.3
5°	3831.2	3801.9	3728.1	3637.7	3565.6	3499.8	3418.1	3369.0	3334.1	3313.5	3319.0
7.5°	3717.8	3671.8	3556.1	3411.8	3296.0	3168.4	3042.3	2967.0	2908.3	2864.7	2872.6
10°	3640.1	3576.7	3407.8	3200.1	3007.4	2821.9	2648.2	2544.4	2461.9	2398.5	2403.2
12.5°	3614.0	3528.3	3294.4	3016.9	2746.5	2492.8	2266.1	2106.7	2021.9	1949.7	1955.2
15°	3617.9	3503.0	3199.3	2852.0	2511.9	2192.3	1917.2	1730.9	1615.9	1565.9	1566.7
17.5°	3621.1	3473.6	3099.4	2675.2	2279.5	1911.6	1612.7	1424.0	1315.4	1269.4	1270.2
20°	3610.8	3426.0	2975.7	2472.2	2036.9	1654.0	1364.6	1204.4	1121.9	1086.2	1086.2
22.5°	3597.3	3369.8	2836.1	2268.4	1797.5	1430.4	1186.9	1064.8	1017.3	993.5	992.7
25°	3603.7	3327.7	2693.4	2059.1	1577.0	1252.0	1068.8	987.9	956.2	941.2	940.4
27.5°	3637.7	3307.9	2561.8	1850.6	1384.4	1118.0	989.5	932.4	911.8	902.3	902.3
30°	3699.6	3307.9	2424.6	1673.0	1224.2	1018.9	928.5	889.6	875.3	869.0	869.0
32.5°	3807.4	3326.1	2292.2	1497.0	1096.6	941.2	877.7	851.6	840.5	837.3	837.3
35°	3993.0	3388.0	2163.0	1330.5	993.5	877.7	829.4	814.3	806.4	805.6	807.9
37.5°	4253.8	3514.1	2041.7	1207.6	920.5	826.2	788.9	777.0	772.3	776.2	779.4
40°	4582.1	3685.3	1931.5	1096.6	865.0	785.0	751.7	743.7	741.3	746.9	751.7
42.5°	4978.5	3916.8	1841.1	1016.5	822.2	750.1	719.9	710.4	708.0	714.4	720.7
45°	5407.5	4165.8	1777.6	957.0	788.9	723.9	692.2	681.9	677.1	680.3	687.4
47.5°	5797.6	4401.3	1752.3	915.0	757.2	701.7	667.6	654.9	647.0	645.4	651.0
50°	6126.6	4576.5	1764.2	889.6	731.8	677.1	643.8	629.5	617.7	610.5	614.5
52.5°	6366.1	4686.7	1775.3	878.5	712.0	650.2	617.7	604.2	588.3	576.4	576.4
55°	6539.7	4712.1	1750.7	869.8	696.9	620.8	588.3	575.6	559.8	546.3	544.7
57.5°	6607.9	4640.7	1659.5	857.1	686.6	593.1	557.4	547.9	534.4	518.5	517.8
60°	6515.9	4420.3	1483.5	830.1	673.2	570.1	526.5	520.1	513.8	498.7	497.9
62.5°	6146.4	3936.7	1255.9	775.4	646.2	545.5	497.9	501.1	501.9	491.6	490.0
65°	5476.4	3272.2	1033.9	704.1	605.8	516.2	468.6	483.7	492.4	490.8	488.4
67.5°	4502.8	2546.7	876.1	628.8	552.6	475.7	436.9	454.3	461.5	467.0	465.4
70°	3342.0	1795.9	724.7	549.5	488.4	428.2	395.6	404.4	399.6	406.0	408.3
72.5°	1863.3	1077.5	590.7	470.2	421.8	372.7	349.7	348.1	337.8	337.8	337.8
74°	1118.0	790.5	519.3	421.0	381.4	336.2	316.4	309.2	299.7	300.5	299.7
75°	899.1	679.5	476.5	388.5	352.8	314.8	295.0	285.4	278.3	278.3	277.5
77.5°	567.7	516.2	383.8	309.2	282.3	259.3	245.8	233.1	233.1	232.3	231.5
80°	428.9	410.7	298.9	233.9	216.5	199.0	190.3	184.7	184.7	187.1	186.3
82.5°	294.2	309.2	210.1	163.3	154.6	141.9	140.3	141.1	138.8	135.6	134.8
85°	214.9	232.3	141.9	103.1	94.4	86.4	92.8	95.9	92.0	84.8	81.7
87.5°	82.5	152.2	76.1	42.8	39.6	34.1	39.6	41.2	44.4	34.9	35.7
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)