

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: P317737

Luminaire Tested: **GAN-SA3D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22057 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

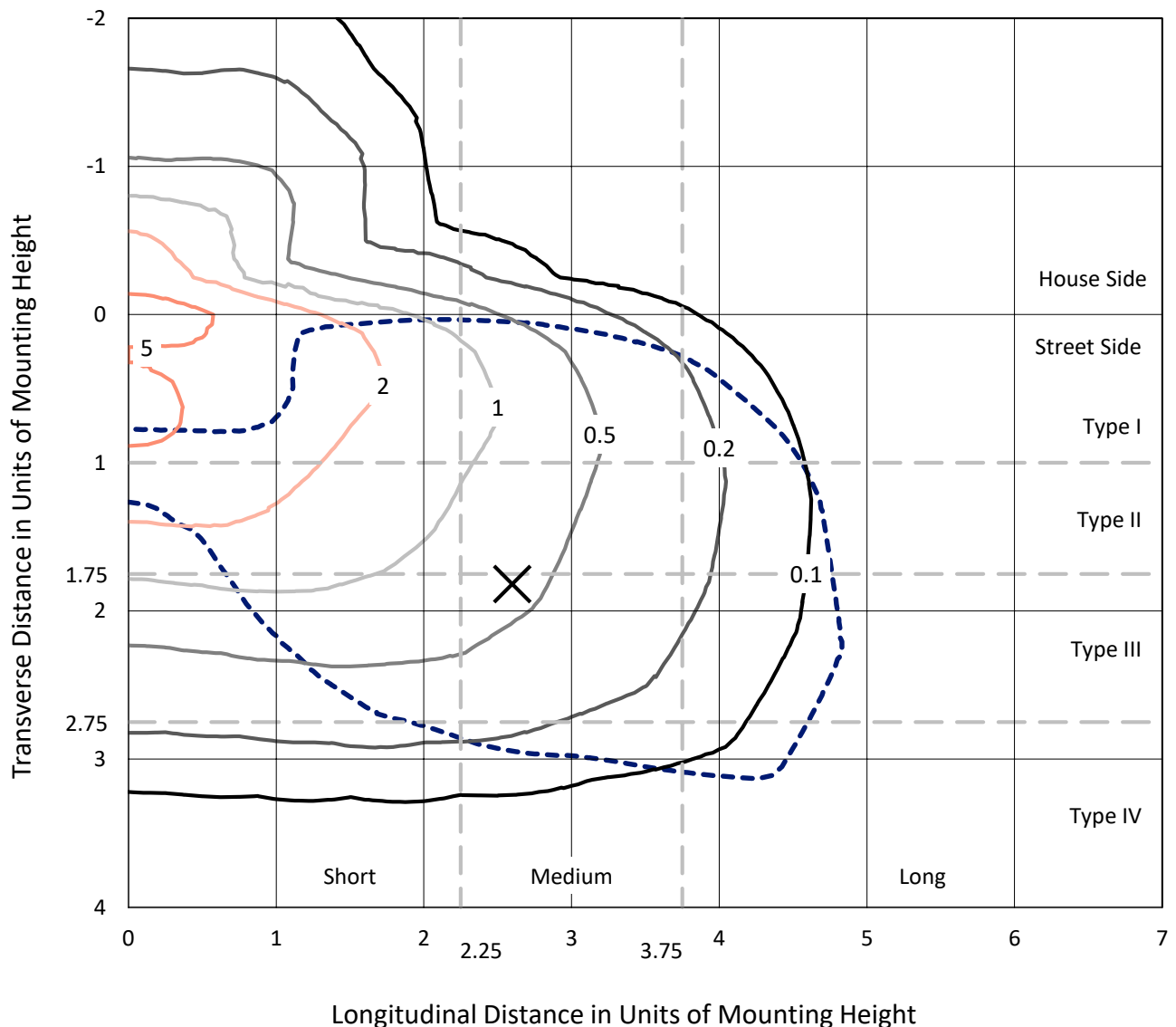
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

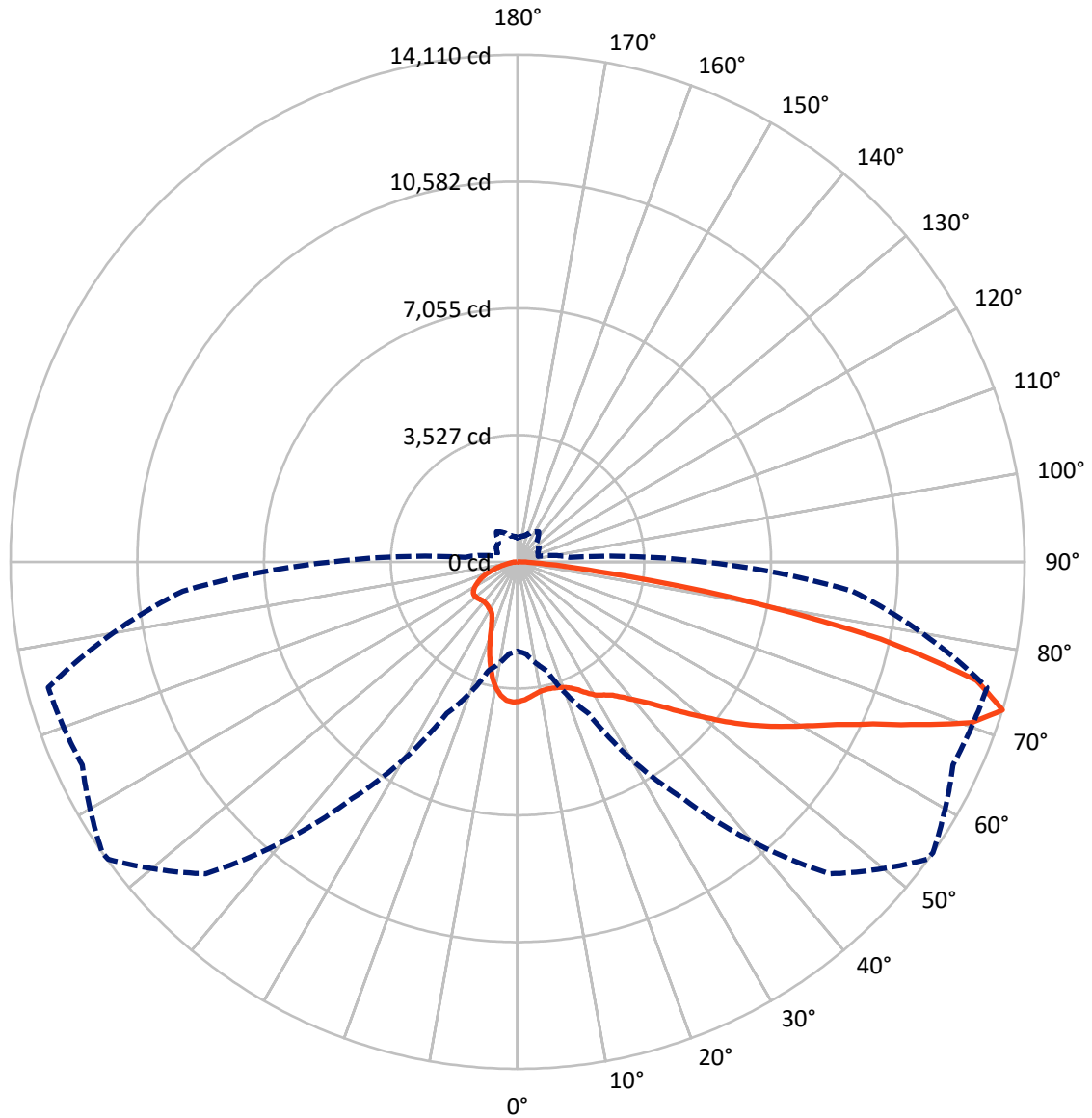
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4099.7	0.0	4099.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17957.3	0.0	17957.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	22057.0	0.0	22057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	1.6
10°-20°	937.2	4.2
20°-30°	1545.3	7.0
30°-40°	2285.9	10.4
40°-50°	3190.6	14.5
50°-60°	4154.2	18.8
60°-70°	5105.4	23.1
70°-80°	4002.0	18.1
80°-90°	484.3	2.2
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°	22057.0	100.0
0°-180°	22057.0	100.0

Coefficient of Utilization

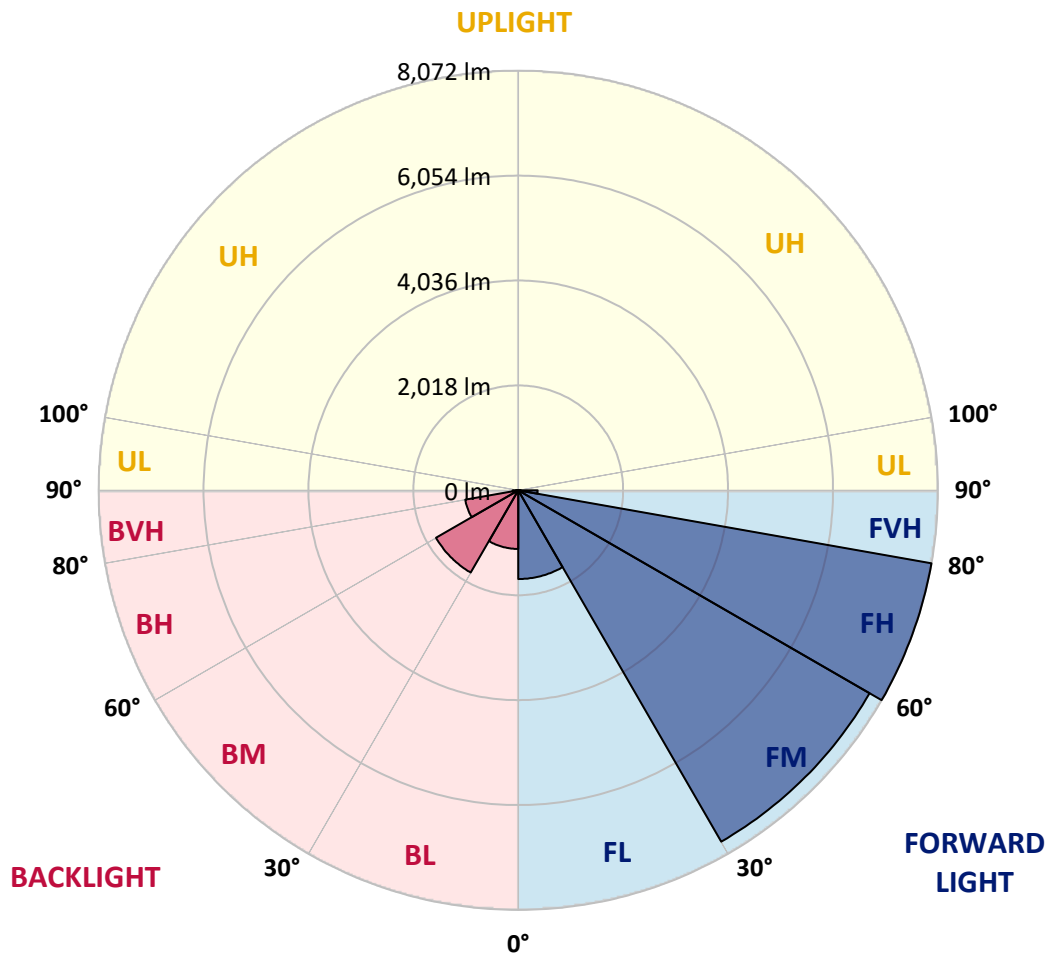


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.6	7.7			
FM (30°-60°)	7804.2	35.4			
FH (60°-80°)	8072.1	36.6			G4/12000
FVH (80°-90°)	374.4	1.7			G3/500
BL (0°-30°)	1128.0	5.1	B3/2500		
BM (30°-60°)	1826.5	8.3	B2/2500		
BH (60°-80°)	1035.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	109.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4
2.5°	3763.7	3754.8	3766.0	3781.6	3798.7	3821.8	3835.3	3841.2	3864.3	3873.2	3892.6
5°	3589.4	3584.9	3603.6	3630.4	3668.4	3722.0	3765.2	3773.4	3834.5	3877.7	3917.2
7.5°	3462.8	3462.8	3484.4	3516.4	3558.9	3631.1	3692.2	3703.4	3806.9	3900.1	3973.1
10°	3362.2	3365.9	3391.2	3429.2	3479.1	3555.9	3637.1	3649.7	3799.5	3952.2	4068.4
12.5°	3295.1	3304.1	3327.2	3361.4	3423.3	3516.4	3619.2	3636.3	3815.1	4026.7	4183.2
15°	3337.6	3352.5	3354.7	3368.9	3403.2	3504.5	3629.6	3647.5	3848.7	4102.7	4313.5
17.5°	3523.8	3529.1	3506.0	3476.2	3459.8	3524.6	3660.9	3679.5	3888.9	4177.9	4438.7
20°	3806.9	3804.0	3754.0	3673.6	3590.1	3600.6	3712.3	3731.7	3943.3	4244.3	4563.9
22.5°	4164.5	4154.1	4077.4	3929.1	3786.8	3727.2	3802.5	3818.9	4025.2	4338.9	4698.0
25°	4598.1	4575.0	4473.7	4274.8	4065.5	3912.0	3938.1	3953.7	4144.4	4444.7	4820.9
27.5°	5055.6	5032.5	4903.6	4662.9	4384.3	4145.2	4125.1	4138.5	4280.0	4522.9	4911.8
30°	5533.8	5509.3	5391.6	5121.9	4722.5	4386.5	4299.4	4304.6	4375.4	4565.3	4986.3
32.5°	6014.4	5991.3	5859.4	5546.5	5089.8	4645.8	4425.3	4418.6	4432.7	4609.3	5070.5
35°	6501.6	6510.5	6356.3	6009.9	5496.6	4934.1	4574.3	4560.1	4528.8	4699.4	5189.7
37.5°	7023.1	7017.1	6817.5	6455.4	5922.0	5247.0	4788.1	4785.9	4677.8	4870.1	5376.7
40°	7371.8	7375.5	7254.0	6911.3	6351.9	5593.4	5062.3	5057.0	4915.5	5125.6	5621.8
42.5°	7508.1	7532.7	7564.0	7346.4	6801.8	5995.0	5389.3	5381.9	5247.0	5492.1	5910.1
45°	7517.8	7566.9	7760.6	7733.1	7257.8	6454.7	5807.3	5786.4	5689.6	5979.4	6254.3
47.5°	7434.3	7485.0	7806.8	7963.3	7665.3	6939.7	6296.0	6279.6	6196.1	6588.8	6626.8
50°	7251.8	7300.2	7711.5	8075.8	8000.5	7406.0	6859.2	6816.0	6771.3	7292.8	7052.9
52.5°	6909.9	7003.0	7584.1	8102.6	8200.9	7820.2	7451.5	7423.2	7447.7	8035.5	7479.8
55°	6100.0	6204.3	7255.5	8080.2	8349.2	8168.2	8043.7	8042.3	8169.6	8814.8	7938.0
57.5°	5646.3	5720.1	6586.5	8042.3	8525.0	8513.8	8630.1	8644.2	8892.3	9663.4	8417.7
60°	5390.1	5467.5	6247.6	7901.5	8797.7	8960.8	9228.3	9256.6	9626.9	10602.8	8995.1
62.5°	5156.9	5241.8	6037.5	7614.6	9118.8	9600.0	9945.0	9970.3	10404.6	11568.3	9553.1
65°	4758.3	4854.4	5729.8	7426.1	9410.8	10433.7	10856.1	10873.2	11297.9	12580.0	9980.0
67.5°	4195.1	4283.0	5149.4	7009.7	9626.9	11446.2	12067.5	12077.2	12183.7	13294.5	10198.3
70°	3537.3	3570.8	4322.5	6150.0	9371.3	12393.0	13395.1	13397.3	12991.3	13751.9	10162.5
72.5°	2485.3	2564.3	3137.9	4655.5	8053.4	12277.6	14084.2	14109.5	13366.8	13521.0	9350.5
75°	1524.3	1607.7	1968.3	2821.3	5109.2	9655.9	13012.9	13188.7	12662.7	12055.6	7638.5
77.5°	1019.2	1050.4	1284.4	1645.0	2314.7	5555.5	10004.6	10335.4	10519.4	8791.7	4885.0
80°	568.4	628.0	851.5	1022.1	1029.6	2207.4	5998.7	6076.2	5852.7	3500.7	1507.1
82.5°	301.0	333.8	568.4	600.5	561.7	739.0	2235.7	2238.0	1869.9	938.7	447.7
85°	233.2	260.7	389.6	366.5	286.8	327.8	737.5	777.8	636.2	384.4	146.0
87.5°	116.2	144.5	264.5	232.4	112.5	93.9	263.7	281.6	251.1	150.5	52.9
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°	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4	3890.4
2.5°	3900.1	3906.8	3915.0	3906.0	3903.0	3891.1	3871.0	3866.5	3856.1	3856.9	3862.8
5°	3934.3	3945.5	3941.0	3906.8	3865.8	3808.4	3748.8	3698.2	3664.6	3662.4	3660.2
7.5°	3999.9	4007.3	3972.3	3874.7	3760.0	3627.4	3502.2	3392.7	3326.4	3310.0	3306.3
10°	4102.7	4101.2	4005.1	3808.4	3579.7	3342.8	3141.7	2989.7	2901.0	2874.9	2868.2
12.5°	4217.4	4200.3	4016.3	3687.7	3324.9	2996.4	2741.6	2572.5	2480.1	2450.3	2442.8
15°	4335.9	4293.4	3988.7	3507.5	3012.0	2623.1	2355.7	2199.2	2149.3	2132.9	2129.9
17.5°	4446.1	4364.2	3909.8	3263.1	2655.2	2251.4	2042.8	1980.2	1992.1	2013.7	2014.5
20°	4554.2	4411.9	3783.1	2954.7	2278.9	1945.2	1874.4	1920.6	1977.2	2021.2	2027.1
22.5°	4660.7	4445.4	3619.9	2598.6	1942.2	1773.1	1823.0	1907.2	1972.0	2019.7	2027.9
25°	4750.1	4453.6	3395.0	2218.6	1708.3	1708.3	1798.4	1878.1	1942.2	1989.1	1997.3
27.5°	4782.9	4398.5	3077.6	1867.0	1590.6	1678.5	1764.2	1830.5	1884.8	1934.8	1943.7
30°	4795.6	4296.4	2711.0	1584.6	1542.1	1646.4	1718.0	1774.6	1826.0	1872.9	1881.1
32.5°	4797.8	4173.5	2322.2	1424.4	1508.6	1612.9	1660.6	1710.5	1765.6	1784.3	1787.3
35°	4811.9	4028.2	1912.4	1342.5	1477.3	1581.6	1619.6	1655.4	1566.0	1572.7	1578.7
37.5°	4852.9	3884.4	1569.7	1296.3	1457.2	1565.2	1610.7	1481.1	1411.0	1394.6	1392.4
40°	4929.7	3731.0	1315.7	1259.0	1449.8	1573.4	1553.3	1382.7	1262.0	1171.9	1158.5
42.5°	5036.2	3565.6	1153.3	1234.5	1455.0	1612.9	1473.6	1288.1	1087.7	1029.6	1022.1
45°	5156.1	3392.0	1065.3	1217.3	1472.9	1643.5	1457.2	1162.2	1006.5	962.5	958.8
47.5°	5272.4	3179.7	1019.9	1209.9	1497.4	1618.9	1387.9	1123.5	967.8	944.7	946.9
50°	5405.7	2988.2	992.3	1201.7	1519.1	1603.2	1309.7	1103.3	952.9	981.2	1011.0
52.5°	5518.2	2790.0	967.8	1185.3	1527.2	1575.7	1289.6	1107.1	952.9	1007.2	1035.5
55°	5651.6	2640.3	939.4	1151.0	1511.6	1497.4	1275.4	1129.4	964.0	929.8	932.7
57.5°	5823.7	2591.1	908.2	1097.4	1459.5	1383.5	1268.7	1151.0	957.3	935.7	943.2
60°	6062.0	2643.3	895.5	1027.4	1378.2	1294.1	1269.5	1139.8	910.4	873.1	873.9
62.5°	6289.3	2701.4	894.7	983.4	1278.4	1214.3	1252.3	1103.3	886.5	864.9	873.1
65°	6363.8	2642.5	859.0	934.2	1165.9	1119.0	1221.1	1064.6	868.7	835.9	834.4
67.5°	6263.9	2460.0	786.7	854.5	1037.0	1008.0	1180.1	1018.4	840.4	813.5	809.1
70°	5967.4	2052.5	697.3	749.5	890.3	882.8	1115.3	964.8	802.4	779.3	759.9
72.5°	5169.5	1462.4	587.8	623.6	724.9	748.7	1025.9	894.7	748.7	698.8	669.0
75°	4245.7	1082.5	482.8	490.2	550.6	615.4	902.9	812.8	685.4	600.5	577.4
77.5°	2600.0	662.3	384.4	387.4	394.8	491.0	743.5	721.2	604.9	500.6	484.2
80°	841.8	361.3	277.9	292.0	269.7	359.8	575.1	613.9	519.3	418.7	400.8
82.5°	320.3	210.8	187.7	197.4	187.0	241.4	419.4	491.7	425.4	344.2	280.1
85°	155.0	119.2	111.0	124.4	115.5	123.7	268.2	362.1	322.6	224.2	208.6
87.5°	55.1	52.9	42.5	57.4	49.2	44.0	81.9	182.5	213.1	154.2	137.8
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)