

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: P317992

Luminaire Tested: **GAN-SA8A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30650 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

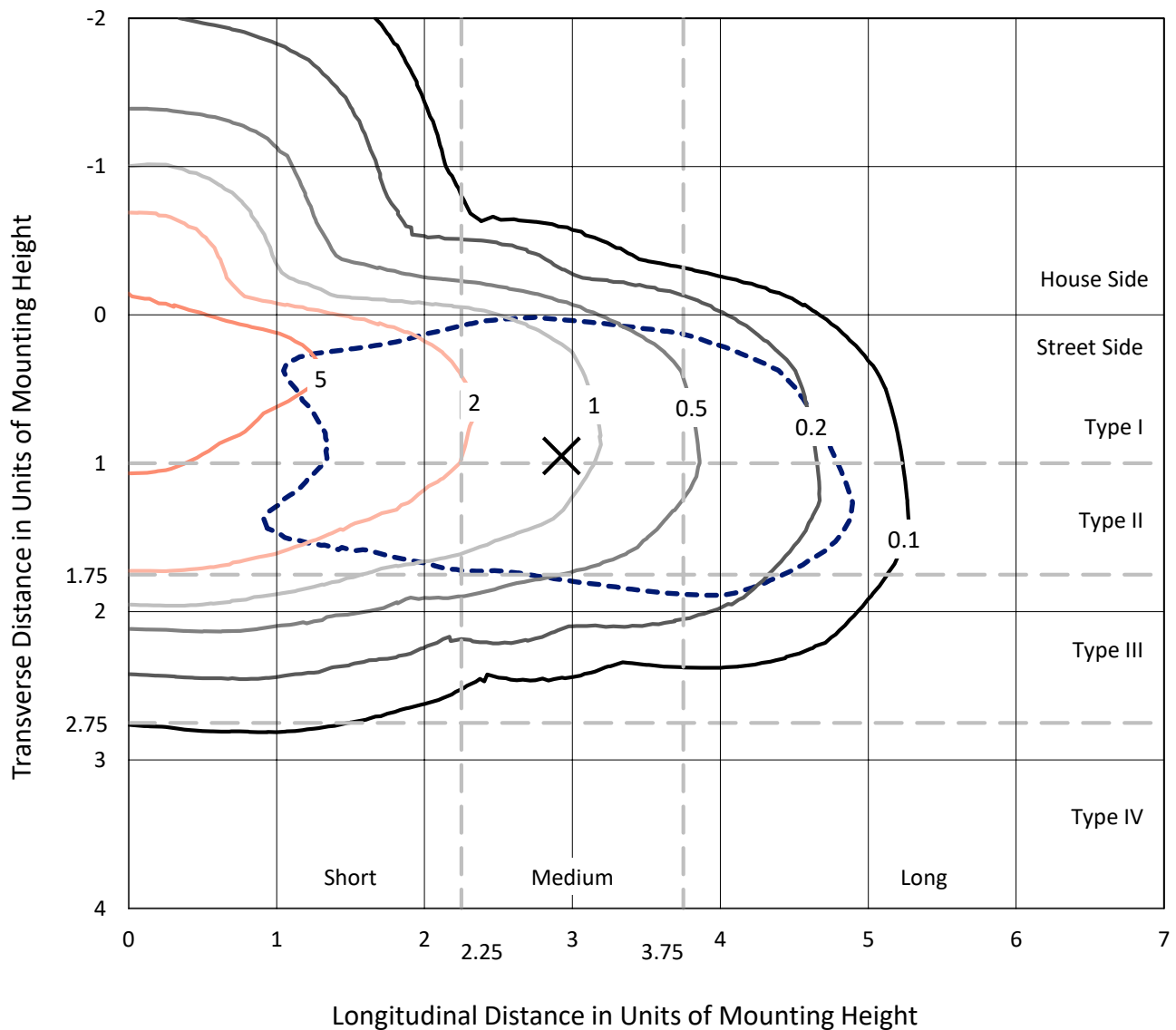
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

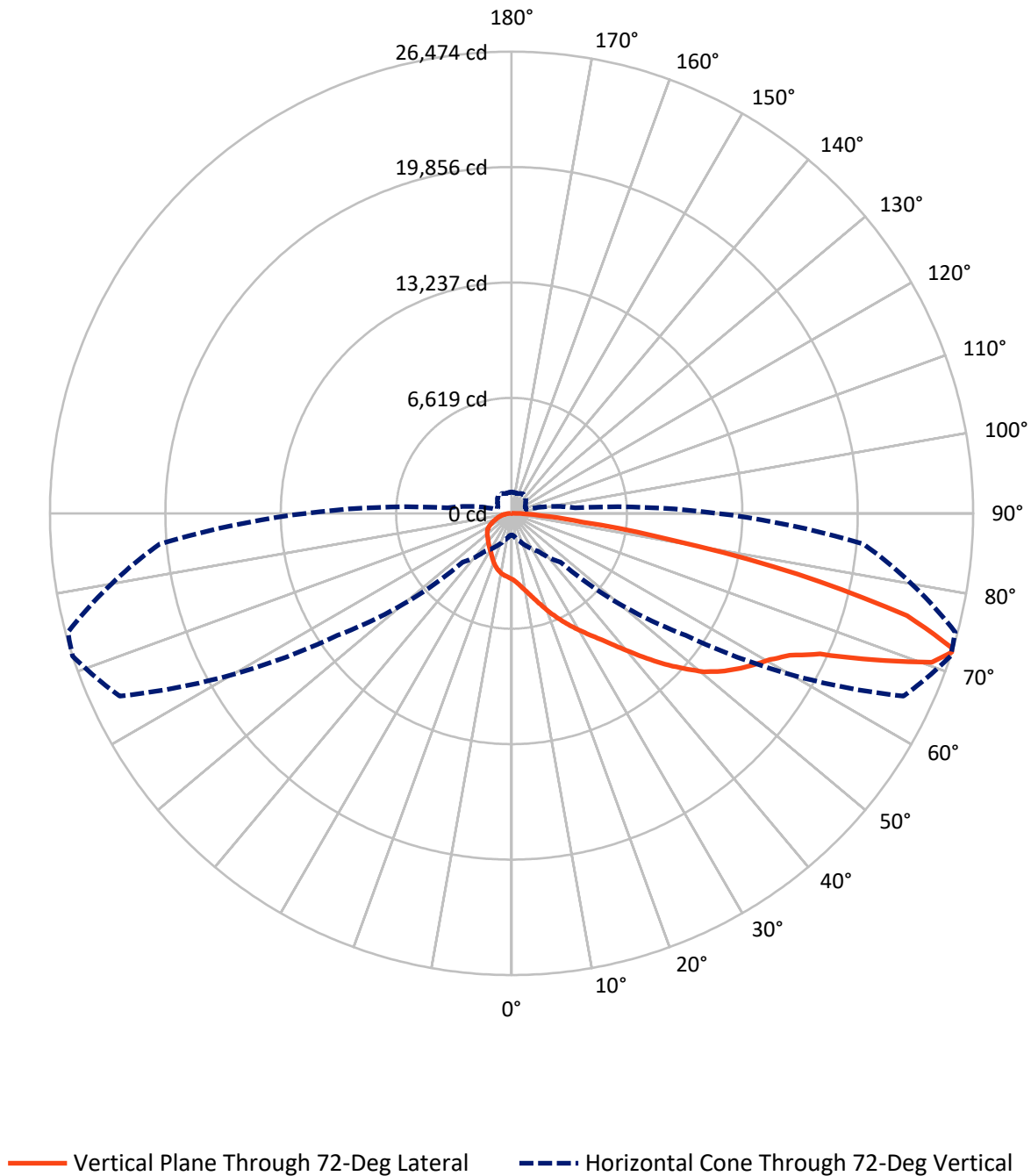
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5685.8	0.0	5685.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24964.2	0.0	24964.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	30650.0	0.0	30650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	1.2
10°-20°	1221.0	4.0
20°-30°	2139.6	7.0
30°-40°	3172.3	10.4
40°-50°	4639.8	15.1
50°-60°	6384.3	20.8
60°-70°	7107.6	23.2
70°-80°	4816.1	15.7
80°-90°	791.6	2.6
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°	30650.0	100.0
0°-180°	30650.0	100.0

Coefficient of Utilization



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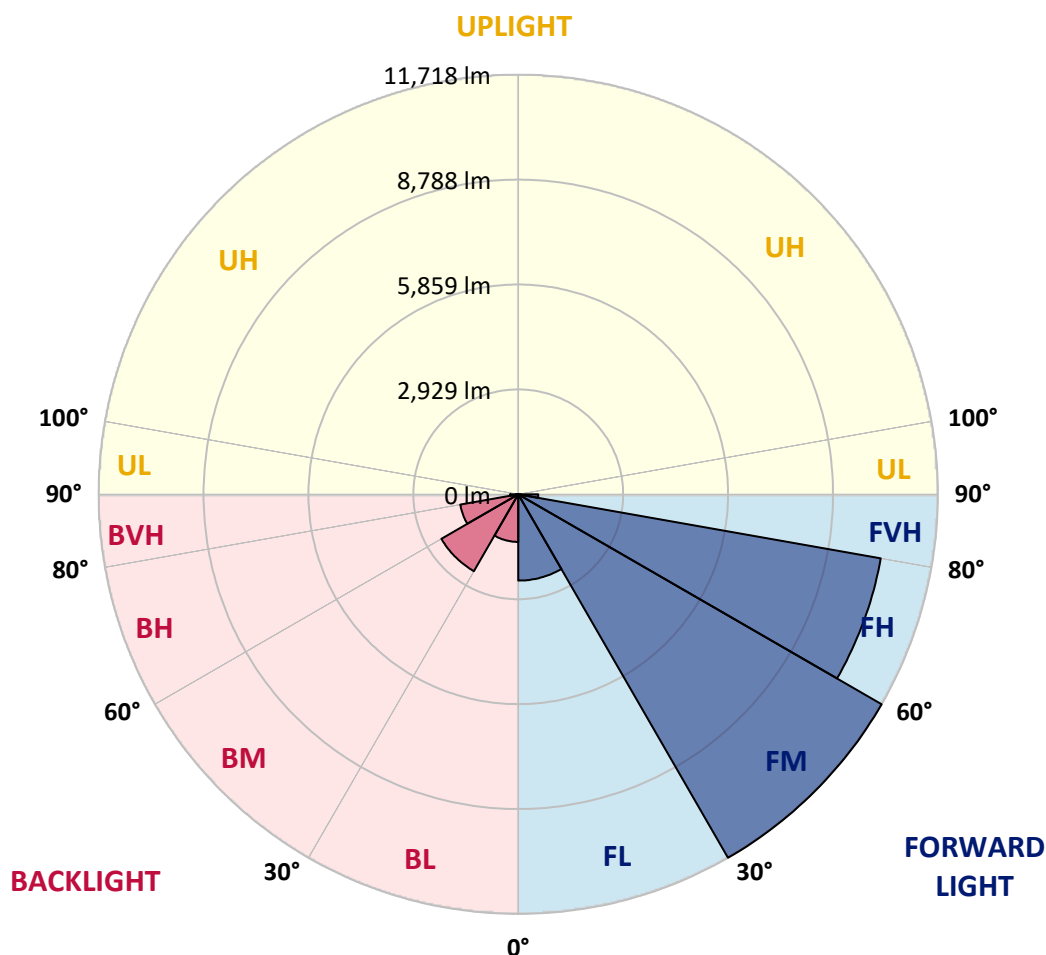
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2409.3	7.9			
FM	(30°-60°)	11717.9	38.2			
FH	(60°-80°)	10278.7	33.5			G4/12000
FVH	(80°-90°)	558.4	1.8			G4/750
BL	(0°-30°)	1329.1	4.3	B3/2500		
BM	(30°-60°)	2478.5	8.1	B2/2500		
BH	(60°-80°)	1645.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	233.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7
2.5°	4165.4	4159.1	4137.0	4137.0	4094.7	4058.9	3991.3	3945.9	3892.1	3873.1	3809.8
5°	4568.6	4570.7	4543.3	4524.3	4462.0	4386.0	4271.0	4166.5	4062.0	4019.8	3890.0
7.5°	4907.4	4903.1	4895.7	4879.9	4821.9	4743.8	4588.6	4433.5	4279.4	4216.1	3992.4
10°	5124.8	5134.3	5140.6	5148.0	5123.7	5067.8	4921.1	4732.2	4530.6	4444.1	4114.8
12.5°	5234.5	5251.4	5280.9	5331.6	5371.7	5365.4	5258.8	5058.3	4818.7	4710.0	4267.8
15°	5298.9	5321.1	5367.5	5458.2	5571.2	5635.5	5607.1	5425.5	5158.5	5024.5	4454.6
17.5°	5339.0	5356.9	5428.7	5550.1	5717.9	5888.8	5963.8	5811.8	5542.7	5389.6	4668.8
20°	5366.4	5380.2	5469.9	5612.3	5829.7	6102.0	6311.0	6273.0	5965.9	5767.5	4892.6
22.5°	5427.6	5439.3	5524.7	5668.3	5908.9	6260.3	6645.5	6702.5	6412.3	6187.5	5132.1
25°	5598.6	5598.6	5670.4	5770.6	5996.5	6397.5	6928.3	7180.6	6868.2	6606.5	5353.8
27.5°	5924.7	5921.5	5947.9	5982.8	6153.7	6536.8	7180.6	7602.7	7341.0	7055.0	5569.1
30°	6311.0	6332.1	6335.2	6318.4	6398.6	6710.9	7413.8	8048.1	7816.9	7508.8	5789.6
32.5°	6808.0	6821.8	6805.9	6750.0	6738.4	6957.9	7642.8	8514.5	8332.0	7982.6	5991.2
35°	7439.1	7412.7	7363.1	7249.2	7140.5	7288.2	7904.5	8981.0	8910.3	8555.7	6268.8
37.5°	8115.6	8116.7	8055.5	7796.9	7647.0	7710.4	8265.5	9509.7	9610.0	9237.4	6624.4
40°	8658.1	8686.5	8724.5	8384.7	8190.5	8278.1	8724.5	10122.9	10437.4	10045.8	7087.7
42.5°	9036.9	9069.6	9177.3	8964.1	8762.5	8925.1	9264.9	10777.2	11366.1	10978.8	7630.1
45°	9438.0	9455.9	9531.9	9440.1	9311.3	9677.5	9873.8	11454.7	12348.6	11972.9	8237.0
47.5°	9860.1	9879.1	9957.2	9896.0	9828.4	10380.4	10509.1	12093.2	13290.0	13065.2	8885.0
50°	10381.4	10394.1	10468.0	10357.2	10378.3	10910.2	11076.9	12678.9	14276.7	14046.6	9535.0
52.5°	11092.7	11095.9	11198.3	11098.0	10998.8	11298.5	11565.5	13230.9	15050.3	14941.6	10185.1
55°	11650.0	11683.7	12019.3	11998.2	11941.2	11651.0	11974.0	13756.4	15740.5	15792.2	10875.3
57.5°	11294.3	11426.2	12105.9	12585.0	13051.5	12528.0	12525.9	14348.5	16382.1	16627.0	11634.1
60°	9891.8	10071.2	11072.7	12135.4	13595.0	14054.0	13672.0	15071.4	17030.1	17454.4	12585.0
62.5°	7064.5	7360.0	8717.2	10414.1	12849.9	15065.1	16004.3	16218.6	17911.3	18412.6	13820.8
65°	3571.3	3795.0	4932.7	6976.9	10266.4	14404.4	18539.3	18730.3	19442.6	19888.0	15723.6
67.5°	2169.8	2254.2	2809.3	3880.5	6294.1	11220.4	19366.6	22916.8	22406.0	22642.4	18436.9
70°	1598.8	1661.1	2007.3	2577.2	3619.8	6584.3	16827.5	25904.5	25568.9	25542.5	20442.0
72°	1245.3	1290.7	1596.7	2082.2	2646.8	3950.2	12196.6	24801.7	26474.4	26341.4	20258.4
72.5°	1180.9	1221.0	1499.6	1959.8	2501.2	3580.8	10966.1	24057.7	26409.0	26348.8	20021.0
75°	929.8	958.3	1110.2	1515.5	1957.7	2031.5	6009.1	18643.7	23427.6	24401.7	18007.4
77.5°	769.3	773.6	853.8	1102.8	1526.0	1436.3	2951.8	12935.4	16775.8	17846.9	12756.0
80°	626.9	632.2	670.1	773.6	1154.5	1062.7	1401.5	7438.1	9392.6	9404.2	6066.1
82.5°	499.2	500.2	542.4	565.7	829.5	759.8	803.1	3492.1	4104.2	3948.0	2180.3
85°	351.4	344.0	529.8	464.4	542.4	487.6	443.2	1382.5	1697.0	1623.1	682.8
87.5°	117.1	121.4	235.3	300.8	316.6	276.5	197.3	529.8	640.6	635.3	216.3
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°	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7	3770.7
2.5°	3789.7	3756.0	3706.4	3651.5	3608.2	3563.9	3531.2	3514.3	3495.3	3479.5	3498.5
5°	3829.8	3766.5	3661.0	3557.6	3481.6	3414.0	3365.5	3340.2	3317.0	3301.1	3303.2
7.5°	3895.3	3792.9	3615.6	3464.7	3359.2	3286.3	3236.7	3219.9	3205.1	3200.9	3206.1
10°	3964.9	3814.0	3555.5	3354.9	3234.6	3174.5	3152.3	3163.9	3174.5	3184.0	3194.5
12.5°	4044.1	3833.0	3467.9	3226.2	3123.8	3100.6	3122.8	3173.4	3210.4	3232.5	3246.2
15°	4147.5	3849.9	3366.6	3097.4	3028.8	3055.2	3130.2	3217.7	3282.1	3323.3	3329.6
17.5°	4242.5	3848.8	3236.7	2967.6	2951.8	3028.8	3141.8	3265.2	3351.8	3409.8	3421.4
20°	4340.6	3820.4	3085.8	2841.0	2873.7	3000.3	3147.0	3295.8	3400.3	3467.9	3483.7
22.5°	4432.5	3770.7	2920.1	2726.0	2808.3	2962.4	3127.0	3277.9	3382.4	3437.3	3454.1
25°	4494.7	3684.2	2752.3	2628.9	2750.2	2915.9	3061.6	3182.9	3261.0	3288.5	3292.7
27.5°	4526.4	3571.3	2594.0	2544.4	2690.1	2839.9	2940.2	3000.3	3022.5	3020.4	3016.2
30°	4530.6	3422.5	2457.9	2475.8	2620.4	2728.1	2775.6	2763.9	2735.5	2686.9	2691.1
32.5°	4516.9	3254.7	2343.9	2410.4	2531.8	2591.9	2594.0	2538.1	2462.1	2385.1	2364.0
35°	4521.1	3090.1	2243.7	2336.5	2424.1	2450.5	2426.2	2343.9	2240.5	2141.3	2120.2
37.5°	4567.5	2946.5	2157.1	2251.1	2304.9	2311.2	2276.4	2189.8	2113.9	2016.8	2008.3
40°	4678.3	2844.2	2074.8	2155.0	2185.6	2188.8	2139.2	2078.0	2084.3	2032.6	2031.5
42.5°	4877.8	2799.8	2002.0	2054.8	2073.8	2080.1	2042.1	2003.0	2057.9	2024.2	2012.5
45°	5135.3	2810.4	1940.8	1956.6	1991.4	2021.0	1997.8	1950.3	1971.4	1824.7	1776.1
47.5°	5432.9	2877.9	1892.2	1872.2	1932.3	1988.3	1952.4	1880.6	1805.7	1660.1	1632.6
50°	5781.2	2982.4	1847.9	1788.8	1868.0	1943.9	1908.1	1805.7	1692.8	1622.1	1612.6
52.5°	6144.2	3110.1	1803.6	1697.0	1786.7	1910.2	1892.2	1788.8	1649.5	1579.9	1567.2
55°	6555.8	3238.9	1747.7	1590.4	1699.1	1894.3	1884.8	1727.6	1616.8	1577.7	1568.2
57.5°	7067.6	3385.5	1673.8	1479.6	1616.8	1837.4	1807.8	1690.7	1583.0	1553.5	1550.3
60°	7734.6	3601.9	1567.2	1361.4	1516.5	1749.8	1743.4	1636.8	1529.2	1508.1	1503.9
62.5°	8735.1	3959.7	1420.5	1243.2	1404.7	1601.0	1659.0	1564.0	1472.2	1471.2	1473.3
65°	10286.5	4497.9	1261.1	1139.8	1291.7	1475.4	1560.9	1489.1	1414.2	1435.3	1438.4
67.5°	12084.8	4944.3	1104.9	1038.5	1176.7	1356.1	1472.2	1414.2	1337.1	1392.0	1393.1
70°	12683.1	4545.4	967.8	938.2	1057.5	1241.1	1376.2	1331.8	1253.8	1308.6	1303.4
72°	11803.0	3669.4	879.1	862.2	967.8	1146.1	1290.7	1254.8	1177.8	1214.7	1201.0
72.5°	11525.4	3498.5	856.9	843.2	943.5	1121.8	1268.5	1235.8	1158.8	1190.4	1177.8
75°	10281.2	3038.3	736.6	739.8	823.2	1003.6	1144.0	1133.4	1054.3	1057.5	1053.2
77.5°	7457.1	2227.8	620.5	641.7	700.7	882.3	1018.4	1012.1	925.5	909.7	906.5
80°	3460.5	1136.6	505.5	515.0	576.2	737.7	868.5	860.1	790.5	770.4	758.8
82.5°	1185.2	540.3	379.9	386.3	446.4	594.2	753.5	748.2	690.2	651.1	626.9
85°	423.2	269.1	265.9	259.6	318.7	467.5	656.4	627.9	542.4	462.2	460.1
87.5°	137.2	115.0	137.2	136.1	185.7	316.6	477.0	406.3	393.6	327.2	320.8
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)