

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: P317366

Luminaire Tested: **GAN-SA2C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12608 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

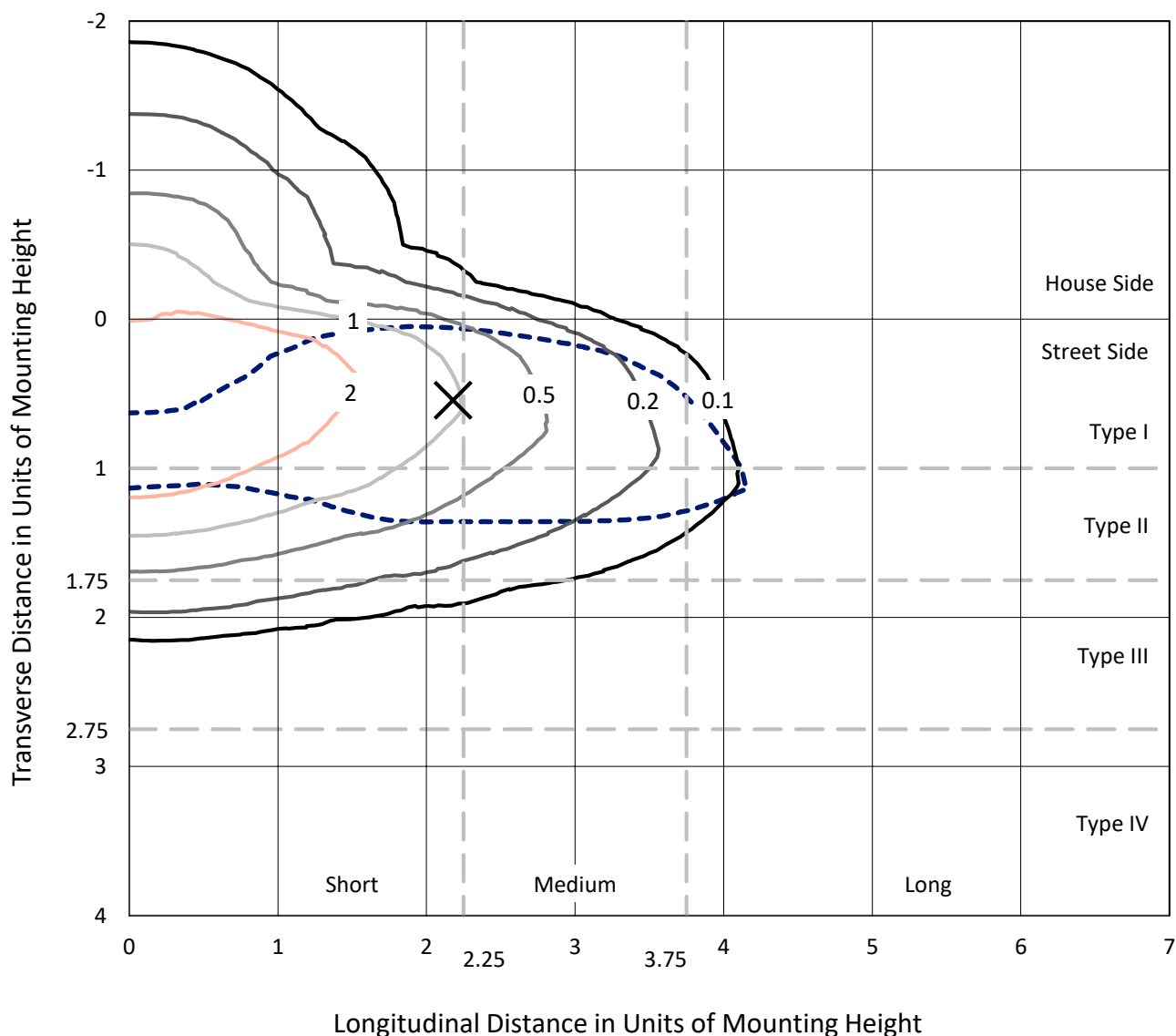
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

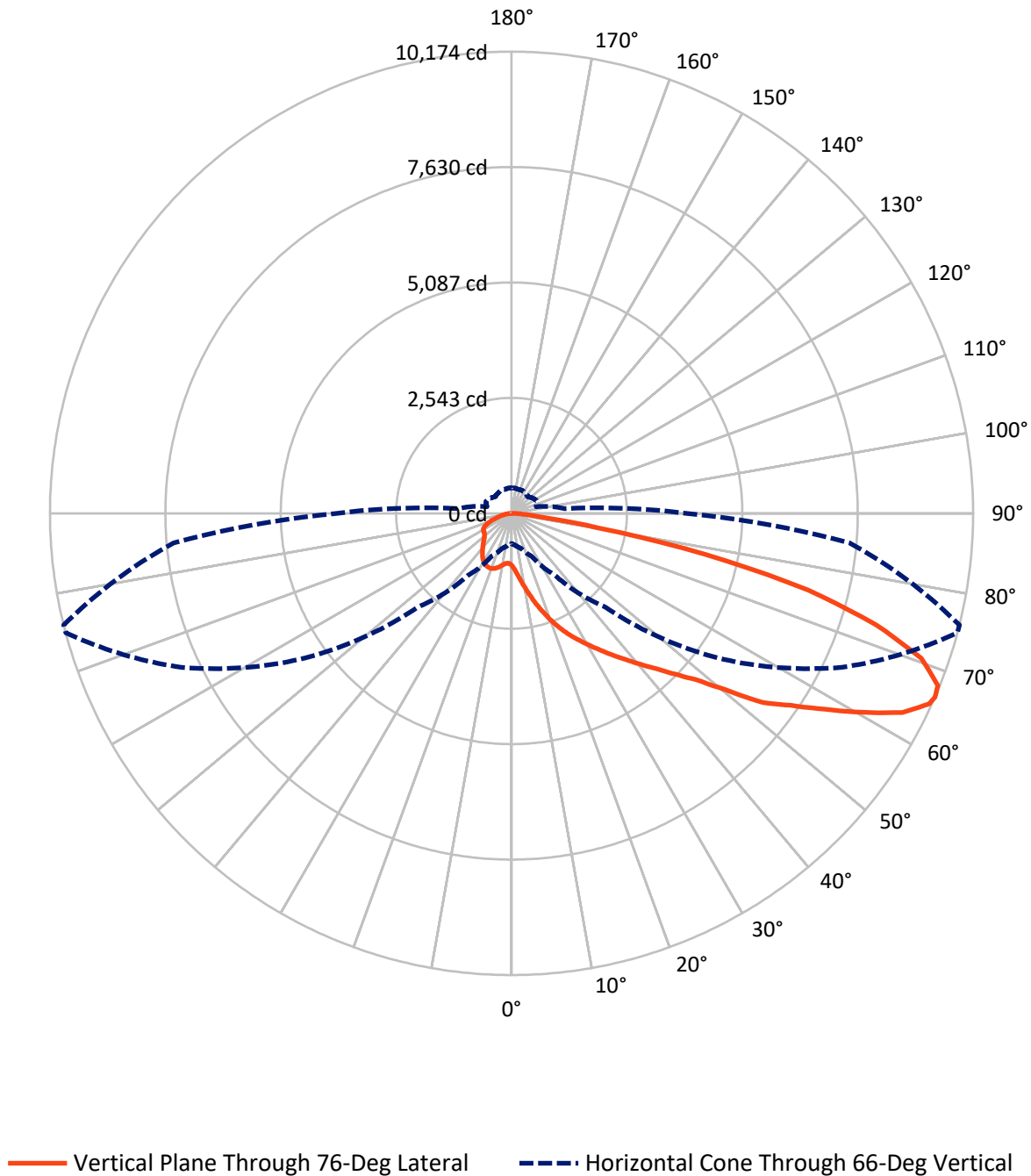
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.5	0.0	2121.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10486.5	0.0	10486.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	12608.0	0.0	12608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.1
10°-20°	549.8	4.4
20°-30°	1068.5	8.5
30°-40°	1743.9	13.8
40°-50°	2382.7	18.9
50°-60°	2775.3	22.0
60°-70°	2488.1	19.7
70°-80°	1257.4	10.0
80°-90°	203.0	1.6
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°	12608.0	100.0
0°-180°	12608.0	100.0

Coefficient of Utilization



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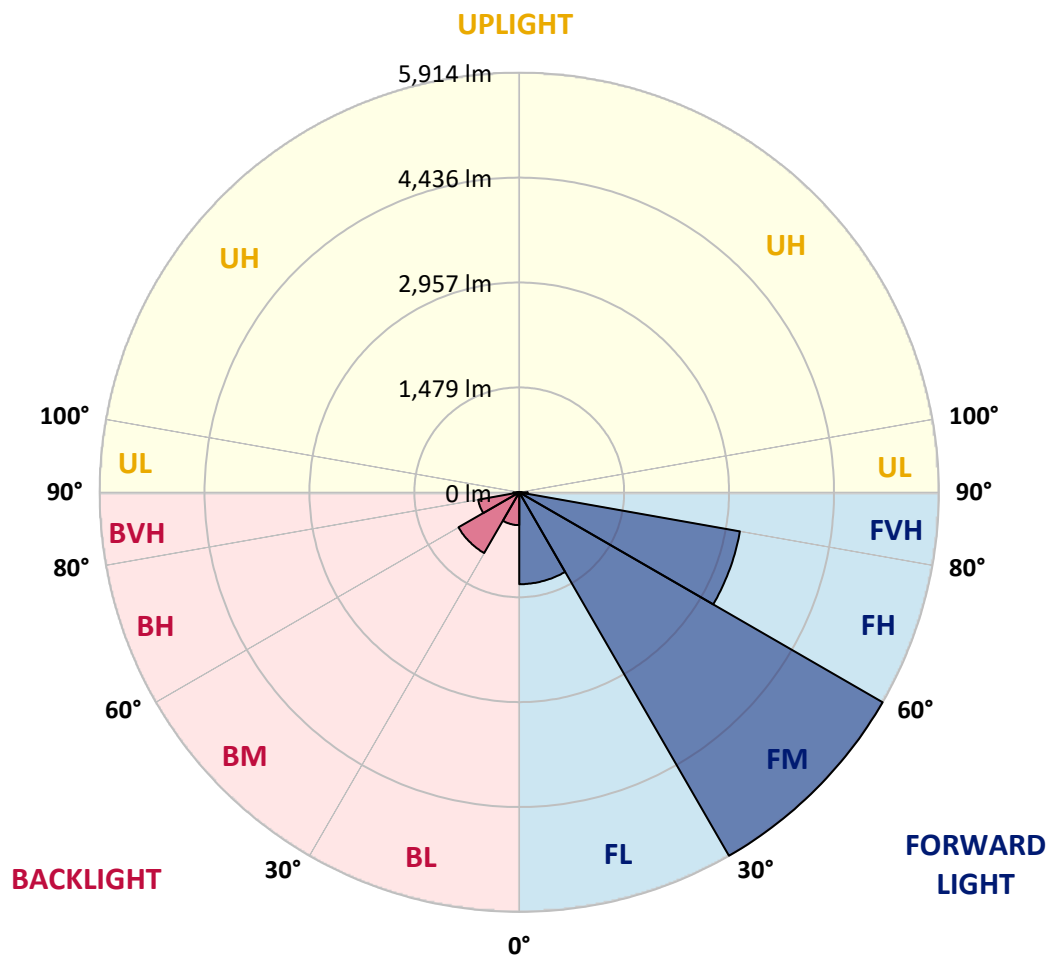
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.8	10.3			
FM	(30°-60°)	5914.0	46.9			
FH	(60°-80°)	3157.8	25.0			G2/5000
FVH	(80°-90°)	119.9	1.0			G2/225
BL	(0°-30°)	462.7	3.7	B1/500		
BM	(30°-60°)	987.9	7.8	B1/1000		
BH	(60°-80°)	587.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	83.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4
2.5°	1528.5	1505.4	1503.2	1469.4	1461.7	1397.1	1349.6	1299.9	1243.4	1232.3	1187.8
5°	1963.4	1961.2	1931.7	1876.5	1833.2	1722.8	1613.7	1498.1	1371.4	1350.9	1250.7
7.5°	2354.6	2351.2	2328.5	2269.0	2206.5	2070.8	1915.0	1737.8	1532.3	1501.9	1335.9
10°	2651.6	2650.3	2642.6	2599.0	2545.9	2415.8	2243.7	2001.9	1719.4	1677.9	1442.5
12.5°	2881.1	2883.6	2888.8	2873.4	2848.1	2737.2	2560.9	2281.8	1918.8	1877.8	1561.0
15°	3036.4	3044.1	3070.7	3092.5	3105.8	3037.7	2866.9	2568.2	2142.3	2093.1	1692.4
17.5°	3114.8	3123.3	3169.1	3235.0	3295.8	3289.0	3153.3	2841.2	2356.7	2309.2	1833.7
20°	3182.4	3188.8	3240.2	3319.4	3426.8	3474.3	3398.1	3104.1	2591.7	2535.2	1983.5
22.5°	3378.4	3386.6	3402.0	3446.9	3541.9	3629.2	3592.4	3352.7	2807.0	2754.4	2125.6
25°	3756.8	3766.6	3733.3	3695.2	3713.1	3773.9	3780.8	3579.6	3025.3	2965.8	2278.4
27.5°	4212.6	4226.8	4169.8	4071.8	3986.2	3962.7	3954.5	3765.4	3233.7	3164.8	2429.5
30°	4659.1	4683.5	4609.4	4482.3	4325.2	4214.8	4133.0	3947.3	3439.2	3373.3	2572.0
32.5°	5095.2	5085.4	4978.0	4853.8	4669.8	4531.5	4333.8	4142.5	3670.3	3594.6	2713.7
35°	5394.0	5397.4	5297.7	5150.5	4975.0	4868.8	4602.6	4353.0	3906.2	3836.4	2874.6
37.5°	5648.3	5632.4	5519.4	5382.0	5230.9	5185.6	4917.2	4585.0	4161.7	4085.5	3045.8
40°	5733.0	5714.6	5640.6	5541.7	5420.5	5416.7	5264.3	4847.8	4450.6	4375.3	3238.9
42.5°	5681.6	5658.1	5627.7	5600.7	5563.5	5580.6	5590.5	5156.0	4768.2	4683.9	3462.3
45°	5492.0	5456.5	5477.9	5536.5	5617.4	5714.2	5885.0	5497.2	5123.9	5053.3	3724.7
47.5°	5200.5	5168.4	5235.2	5360.6	5580.6	5825.5	6163.6	5873.8	5548.5	5478.3	4098.4
50°	4790.5	4799.9	4895.4	5123.5	5456.1	5876.8	6506.9	6372.5	6165.7	6100.3	4608.1
52.5°	4117.6	4119.3	4388.1	4762.7	5235.2	5850.3	6697.4	7009.8	7008.5	6929.3	5093.5
55°	3492.7	3530.8	3743.5	4241.3	4877.4	5744.1	6830.5	7319.7	7562.0	7469.1	5546.0
57.5°	2882.3	2904.6	3106.2	3606.1	4366.7	5461.2	6967.0	7691.7	8199.7	8141.1	6108.4
60°	2188.1	2222.3	2430.8	2892.6	3713.6	4959.1	6979.8	8079.9	8962.0	8903.0	6736.3
62.5°	1420.2	1479.3	1674.4	2107.2	2923.4	4237.0	6681.9	8333.7	9684.6	9663.6	7293.6
65°	816.2	860.8	996.4	1330.3	2016.9	3330.5	5973.6	8236.1	10129.3	10117.3	7502.0
66°	666.9	694.7	798.7	1039.7	1664.2	2924.7	5561.8	8030.2	10173.4	10173.8	7478.1
67.5°	533.3	545.7	592.4	744.3	1228.0	2318.2	4826.0	7576.1	10118.6	10133.6	7323.6
70°	441.3	447.7	462.3	499.1	670.3	1397.9	3425.5	6396.0	9568.6	9580.1	6720.5
72.5°	395.9	399.8	405.3	410.5	473.0	781.2	2092.2	5116.6	8389.3	8404.3	5801.5
75°	358.7	360.8	360.0	360.4	396.8	497.8	1081.2	3820.1	6783.4	6753.4	4444.2
77.5°	315.0	317.2	312.9	313.7	351.0	382.7	538.0	2674.3	4577.8	4366.3	2504.0
80°	266.2	267.9	266.2	269.2	305.6	288.9	312.9	1504.5	2024.1	1914.6	890.3
82.5°	201.2	208.4	213.6	225.6	251.7	205.5	209.3	586.0	616.4	586.8	273.1
85°	88.2	107.4	160.9	172.5	189.2	123.3	137.4	238.8	250.8	243.1	99.3
87.5°	23.1	25.3	79.6	100.2	104.9	55.6	71.5	108.7	114.7	108.7	33.0
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°	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4	1151.4
2.5°	1164.2	1143.3	1105.6	1072.2	1047.0	1029.8	1012.7	1004.2	999.0	993.9	994.7
5°	1201.5	1159.1	1094.5	1048.7	1023.0	1006.7	998.2	994.7	992.6	987.5	987.5
7.5°	1257.5	1197.6	1108.6	1061.5	1041.4	1029.0	1023.8	1022.1	1019.6	1013.6	1014.4
10°	1328.2	1244.3	1138.1	1092.3	1073.9	1060.2	1052.9	1050.4	1045.7	1038.8	1039.7
12.5°	1411.2	1302.1	1177.1	1129.1	1106.9	1088.5	1076.5	1069.2	1061.1	1052.1	1052.5
15°	1501.9	1365.0	1219.0	1162.1	1131.7	1106.0	1086.8	1074.3	1061.5	1050.4	1050.0
17.5°	1594.0	1425.8	1251.1	1180.1	1139.0	1105.2	1079.1	1059.8	1044.0	1030.3	1029.0
20°	1693.3	1480.5	1269.1	1178.4	1125.3	1085.1	1050.4	1026.4	1008.9	995.2	993.0
22.5°	1794.3	1531.9	1272.1	1160.8	1094.9	1045.7	1009.3	982.8	964.8	950.6	945.5
25°	1886.7	1571.7	1259.7	1127.0	1052.5	999.4	963.9	937.0	922.4	905.7	900.6
27.5°	1971.1	1599.5	1234.9	1083.8	1005.0	952.8	919.4	896.3	880.5	867.6	863.3
30°	2046.8	1614.5	1194.2	1032.4	956.2	908.7	880.5	864.6	850.9	834.7	831.7
32.5°	2118.7	1614.5	1142.0	976.3	907.8	869.8	853.1	843.2	827.8	812.0	807.7
35°	2190.6	1604.7	1080.3	917.7	863.3	841.9	841.1	829.5	806.0	784.6	779.0
37.5°	2266.4	1584.6	1011.0	862.9	826.9	829.5	836.8	811.1	777.7	747.3	739.2
40°	2352.0	1556.7	939.1	815.4	796.6	824.0	825.2	784.6	719.5	691.7	684.4
42.5°	2452.6	1528.9	872.3	773.4	772.6	807.3	803.4	727.2	688.3	674.1	670.3
45°	2584.9	1513.1	809.0	733.6	753.8	780.3	766.2	695.5	679.3	671.1	667.7
47.5°	2793.3	1521.2	750.8	702.0	734.9	753.3	696.8	682.7	671.1	661.3	657.9
50°	3054.4	1516.5	703.7	680.1	713.5	725.1	665.6	666.0	660.0	648.9	643.8
52.5°	3250.9	1479.7	673.3	667.7	694.7	675.0	645.9	649.7	646.7	630.5	624.9
55°	3440.5	1448.0	657.9	663.0	681.0	612.5	622.8	632.2	629.2	613.4	610.8
57.5°	3676.3	1442.0	648.5	664.3	669.4	581.3	600.5	612.9	610.8	603.9	602.7
60°	3965.2	1443.7	639.9	666.4	656.6	558.1	579.5	595.4	596.7	595.4	594.5
62.5°	4124.0	1397.1	618.5	660.4	633.9	538.0	557.7	580.8	581.3	583.8	583.4
65°	3989.2	1257.5	578.7	639.5	595.8	521.3	538.9	564.1	557.7	569.3	569.3
66°	3858.2	1177.1	559.0	625.8	579.5	514.9	532.9	555.6	547.4	563.3	563.3
67.5°	3590.7	1041.4	523.5	596.7	556.4	505.9	526.0	541.5	530.3	553.9	552.2
70°	3101.9	805.5	452.0	530.8	518.3	492.7	516.6	513.2	496.9	532.9	526.0
72.5°	2615.2	612.1	363.0	444.3	460.6	476.0	503.4	477.3	456.7	482.0	467.0
75°	2029.3	460.1	286.8	345.4	389.1	449.9	487.5	435.7	406.2	403.6	395.5
77.5°	1097.0	315.9	227.3	263.7	309.0	417.3	476.8	391.2	346.7	336.4	330.0
80°	434.4	205.5	165.2	199.9	216.2	370.2	451.1	339.4	285.9	275.6	265.8
82.5°	179.3	121.6	106.6	134.0	140.8	316.7	404.9	278.2	220.9	305.6	324.4
85°	77.0	66.8	63.3	69.3	79.6	222.1	322.3	212.3	238.4	212.7	169.1
87.5°	23.1	28.2	27.0	26.5	29.1	53.1	171.6	118.1	175.1	66.3	49.7
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)