

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: P317986

Luminaire Tested: **GAN-SA2A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317986
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-SA2A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 7825 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

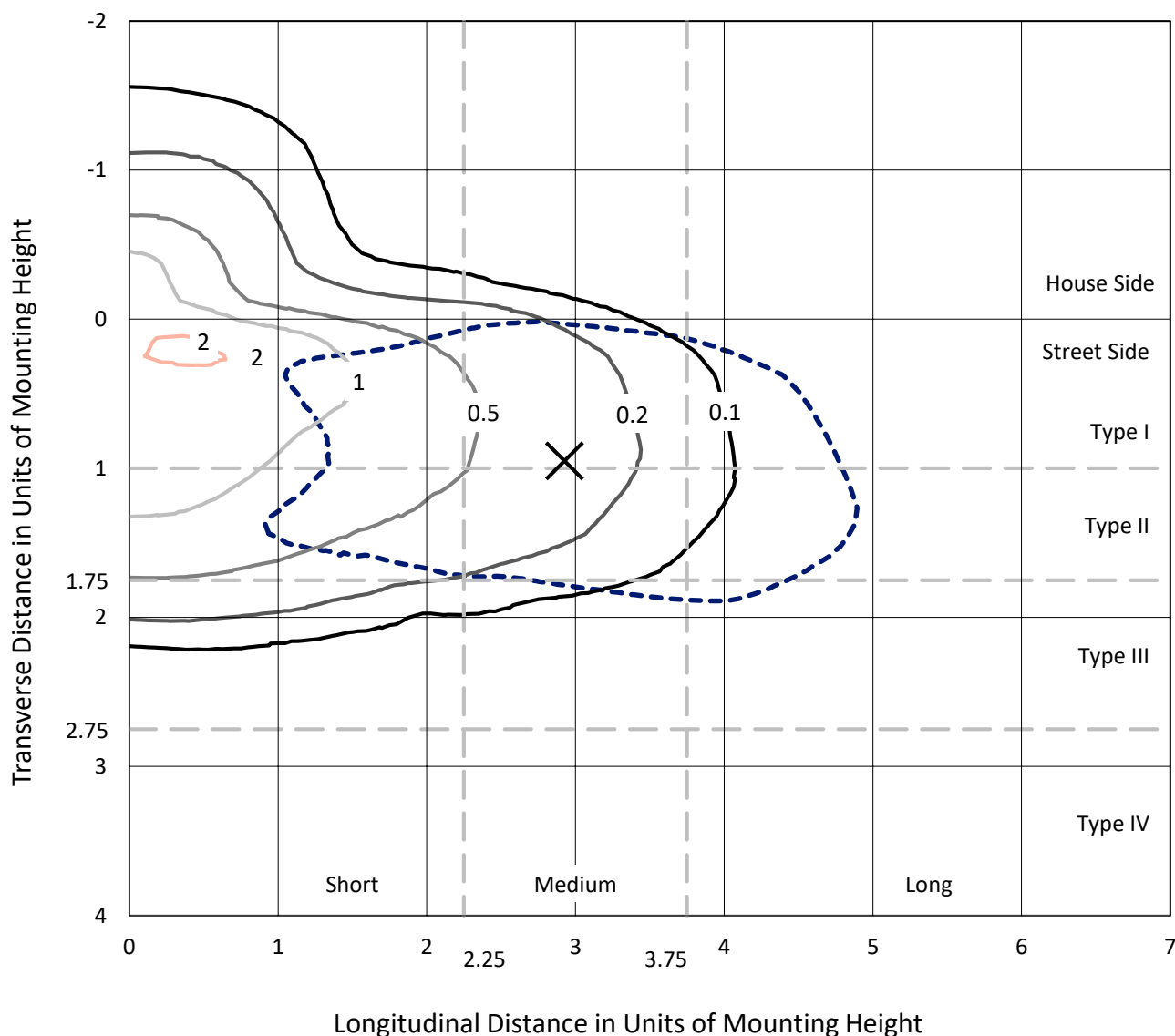


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

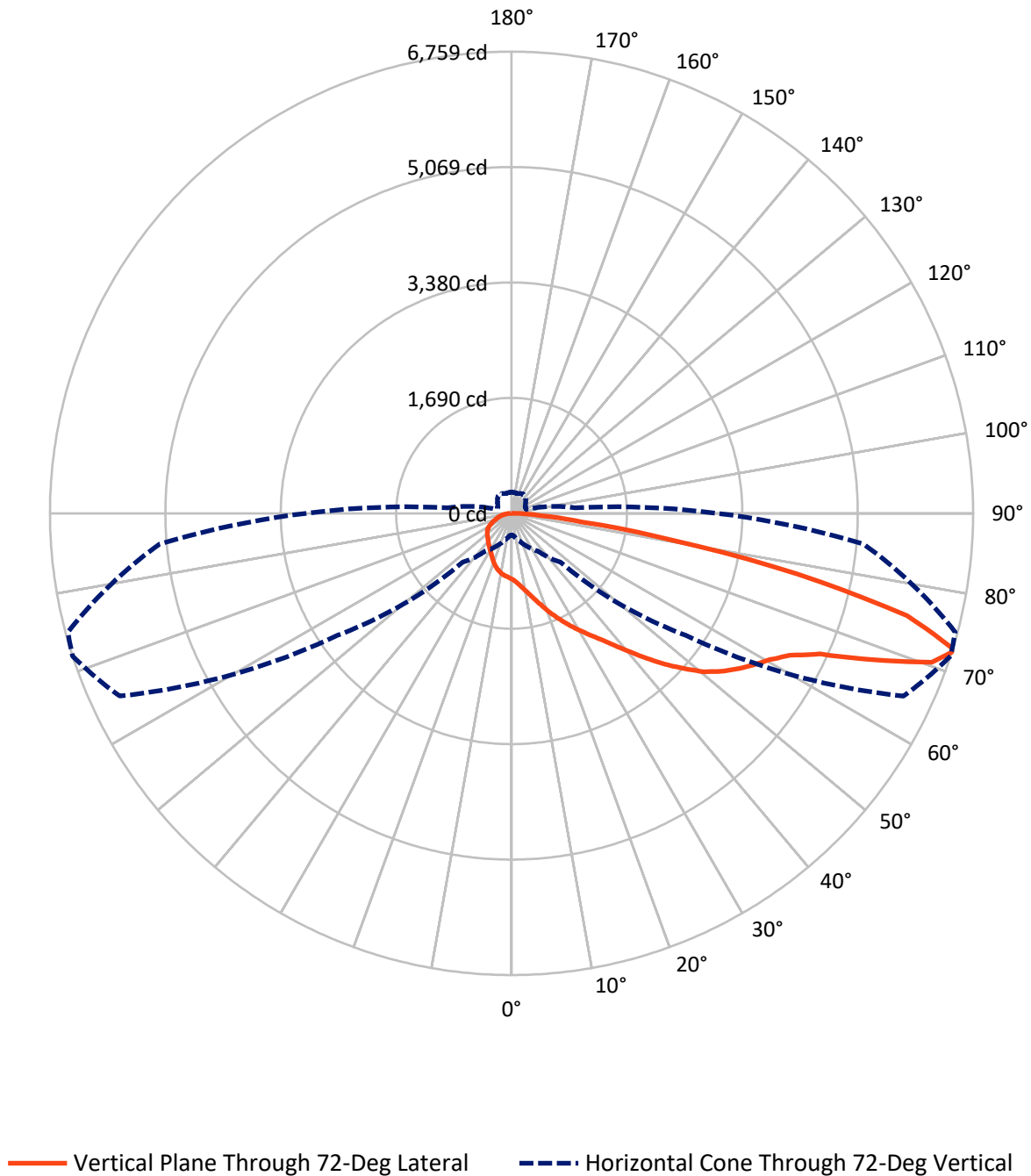
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1451.6	0.0	1451.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6373.4	0.0	6373.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	7825.0	0.0	7825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.2
10°-20°	311.7	4.0
20°-30°	546.2	7.0
30°-40°	809.9	10.4
40°-50°	1184.5	15.1
50°-60°	1629.9	20.8
60°-70°	1814.6	23.2
70°-80°	1229.6	15.7
80°-90°	202.1	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°	7825.0	100.0
0°-180°	7825.0	100.0

Coefficient of Utilization



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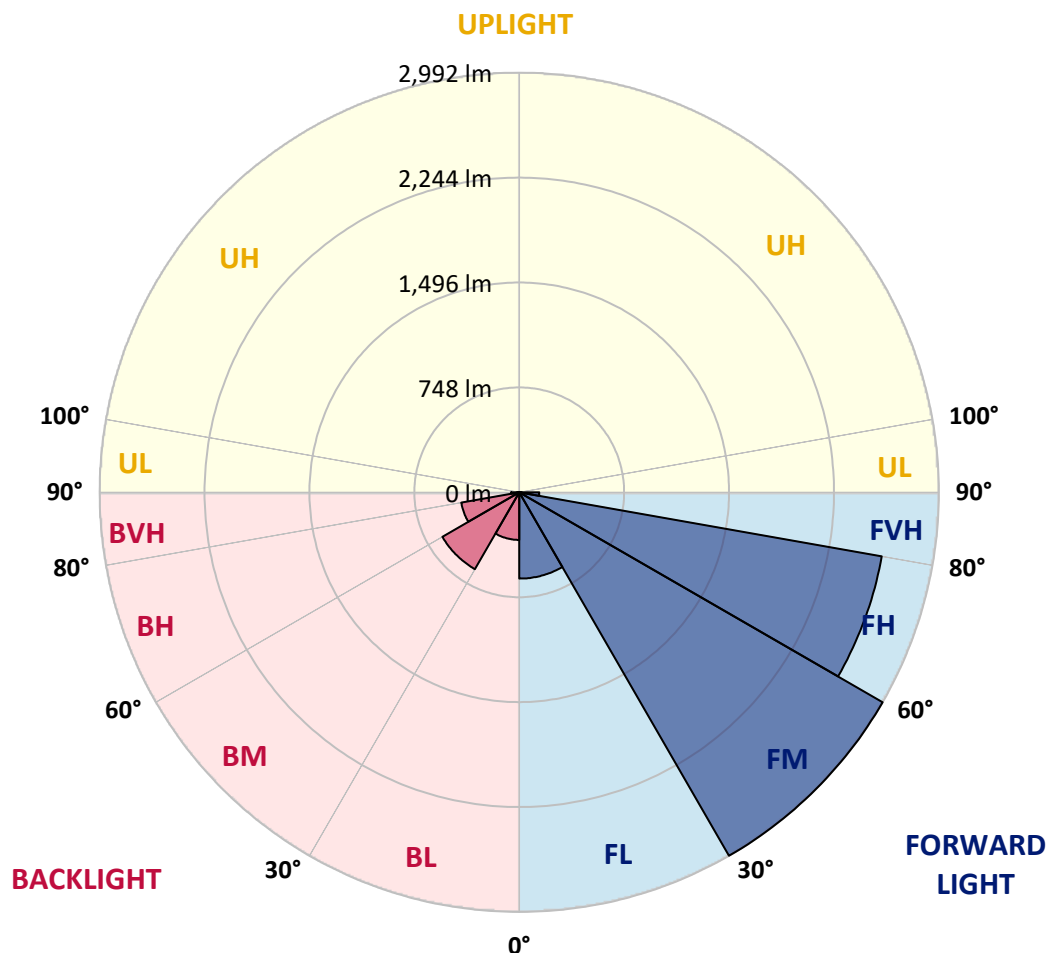
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.1	7.9			
FM	(30°-60°)	2991.6	38.2			
FH	(60°-80°)	2624.2	33.5			G2/5000
FVH	(80°-90°)	142.5	1.8			G2/225
BL	(0°-30°)	339.3	4.3	B1/500		
BM	(30°-60°)	632.8	8.1	B1/1000		
BH	(60°-80°)	420.0	5.4	B1/500		G1/500
BVH	(80°-90°)	59.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7
2.5°	1063.4	1061.8	1056.2	1056.2	1045.4	1036.2	1019.0	1007.4	993.7	988.8	972.6
5°	1166.4	1166.9	1159.9	1155.1	1139.2	1119.8	1090.4	1063.7	1037.0	1026.3	993.1
7.5°	1252.9	1251.8	1249.9	1245.9	1231.0	1211.1	1171.5	1131.9	1092.5	1076.4	1019.3
10°	1308.4	1310.8	1312.4	1314.3	1308.1	1293.8	1256.4	1208.1	1156.7	1134.6	1050.5
12.5°	1336.4	1340.7	1348.2	1361.2	1371.4	1369.8	1342.6	1291.4	1230.2	1202.5	1089.6
15°	1352.8	1358.5	1370.3	1393.5	1422.3	1438.8	1431.5	1385.1	1317.0	1282.8	1137.3
17.5°	1363.1	1367.6	1386.0	1416.9	1459.8	1503.4	1522.6	1483.8	1415.1	1376.0	1192.0
20°	1370.1	1373.6	1396.5	1432.8	1488.3	1557.9	1611.2	1601.5	1523.1	1472.4	1249.1
22.5°	1385.7	1388.7	1410.5	1447.1	1508.5	1598.3	1696.6	1711.2	1637.1	1579.7	1310.2
25°	1429.3	1429.3	1447.7	1473.3	1530.9	1633.3	1768.8	1833.2	1753.5	1686.6	1366.8
27.5°	1512.6	1511.8	1518.5	1527.4	1571.1	1668.9	1833.2	1941.0	1874.2	1801.2	1421.8
30°	1611.2	1616.6	1617.4	1613.1	1633.6	1713.3	1892.8	2054.7	1995.7	1917.0	1478.1
32.5°	1738.1	1741.6	1737.6	1723.3	1720.3	1776.4	1951.2	2173.8	2127.2	2038.0	1529.6
35°	1899.2	1892.5	1879.8	1850.7	1823.0	1860.7	2018.0	2292.9	2274.8	2184.3	1600.4
37.5°	2071.9	2072.2	2056.6	1990.6	1952.3	1968.5	2110.2	2427.8	2453.4	2358.3	1691.2
40°	2210.4	2217.7	2227.4	2140.6	2091.1	2113.4	2227.4	2584.4	2664.7	2564.7	1809.5
42.5°	2307.1	2315.5	2343.0	2288.6	2237.1	2278.6	2365.3	2751.4	2901.8	2802.9	1948.0
45°	2409.5	2414.1	2433.5	2410.1	2377.2	2470.7	2520.8	2924.4	3152.6	3056.7	2102.9
47.5°	2517.3	2522.1	2542.1	2526.5	2509.2	2650.1	2683.0	3087.4	3393.0	3335.6	2268.3
50°	2650.4	2653.6	2672.5	2644.2	2649.6	2785.4	2828.0	3237.0	3644.9	3586.1	2434.3
52.5°	2832.0	2832.8	2858.9	2833.3	2808.0	2884.5	2952.7	3377.9	3842.4	3814.6	2600.3
55°	2974.3	2982.9	3068.6	3063.2	3048.6	2974.5	3057.0	3512.0	4018.6	4031.8	2776.5
57.5°	2883.5	2917.1	3090.7	3213.0	3332.1	3198.4	3197.9	3663.2	4182.4	4244.9	2970.2
60°	2525.4	2571.2	2826.9	3098.2	3470.8	3588.0	3490.5	3847.8	4347.8	4456.1	3213.0
62.5°	1803.6	1879.0	2225.5	2658.8	3280.6	3846.1	4085.9	4140.6	4572.8	4700.8	3528.5
65°	911.8	968.9	1259.3	1781.2	2621.0	3677.5	4733.1	4781.9	4963.7	5077.4	4014.3
67.5°	554.0	575.5	717.2	990.7	1606.9	2864.6	4944.3	5850.7	5720.3	5780.7	4707.0
70°	408.2	424.1	512.5	658.0	924.2	1681.0	4296.1	6613.5	6527.8	6521.1	5218.9
72°	317.9	329.5	407.7	531.6	675.7	1008.5	3113.8	6331.9	6759.0	6725.0	5172.0
72.5°	301.5	311.7	382.9	500.3	638.6	914.2	2799.7	6142.0	6742.3	6726.9	5111.4
75°	237.4	244.6	283.4	386.9	499.8	518.7	1534.1	4759.8	5981.1	6229.8	4597.3
77.5°	196.4	197.5	218.0	281.6	389.6	366.7	753.6	3302.4	4282.9	4556.4	3256.6
80°	160.0	161.4	171.1	197.5	294.8	271.3	357.8	1899.0	2397.9	2400.9	1548.7
82.5°	127.4	127.7	138.5	144.4	211.8	194.0	205.0	891.5	1047.8	1007.9	556.6
85°	89.7	87.8	135.3	118.5	138.5	124.5	113.2	353.0	433.2	414.4	174.3
87.5°	29.9	31.0	60.1	76.8	80.8	70.6	50.4	135.3	163.5	162.2	55.2
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°	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7	962.7
2.5°	967.5	958.9	946.2	932.2	921.2	909.9	901.5	897.2	892.4	888.3	893.2
5°	977.8	961.6	934.7	908.3	888.9	871.6	859.2	852.8	846.8	842.8	843.3
7.5°	994.5	968.3	923.1	884.5	857.6	839.0	826.3	822.0	818.3	817.2	818.5
10°	1012.3	973.7	907.7	856.5	825.8	810.5	804.8	807.8	810.5	812.9	815.6
12.5°	1032.5	978.6	885.4	823.7	797.5	791.6	797.2	810.2	819.6	825.3	828.8
15°	1058.9	982.9	859.5	790.8	773.3	780.0	799.1	821.5	837.9	848.4	850.1
17.5°	1083.1	982.6	826.3	757.6	753.6	773.3	802.1	833.6	855.7	870.5	873.5
20°	1108.2	975.3	787.8	725.3	733.7	766.0	803.4	841.4	868.1	885.4	889.4
22.5°	1131.6	962.7	745.5	695.9	717.0	756.3	798.3	836.9	863.5	877.5	881.8
25°	1147.5	940.6	702.7	671.2	702.1	744.4	781.6	812.6	832.5	839.5	840.6
27.5°	1155.6	911.8	662.3	649.6	686.8	725.0	750.6	766.0	771.7	771.1	770.0
30°	1156.7	873.8	627.5	632.1	669.0	696.5	708.6	705.6	698.4	686.0	687.1
32.5°	1153.2	830.9	598.4	615.4	646.4	661.7	662.3	648.0	628.6	608.9	603.5
35°	1154.2	788.9	572.8	596.5	618.9	625.6	619.4	598.4	572.0	546.7	541.3
37.5°	1166.1	752.3	550.7	574.7	588.4	590.1	581.2	559.1	539.7	514.9	512.7
40°	1194.4	726.1	529.7	550.2	558.0	558.8	546.1	530.5	532.1	518.9	518.7
42.5°	1245.3	714.8	511.1	524.6	529.4	531.0	521.4	511.4	525.4	516.8	513.8
45°	1311.1	717.5	495.5	499.5	508.4	516.0	510.0	497.9	503.3	465.8	453.5
47.5°	1387.0	734.7	483.1	478.0	493.3	507.6	498.4	480.1	461.0	423.8	416.8
50°	1475.9	761.4	471.8	456.7	476.9	496.3	487.1	461.0	432.2	414.1	411.7
52.5°	1568.6	794.0	460.5	433.2	456.1	487.7	483.1	456.7	421.1	403.3	400.1
55°	1673.7	826.9	446.2	406.0	433.8	483.6	481.2	441.1	412.8	402.8	400.4
57.5°	1804.4	864.3	427.3	377.7	412.8	469.1	461.5	431.6	404.1	396.6	395.8
60°	1974.7	919.6	400.1	347.6	387.2	446.7	445.1	417.9	390.4	385.0	383.9
62.5°	2230.1	1010.9	362.7	317.4	358.6	408.7	423.5	399.3	375.9	375.6	376.1
65°	2626.1	1148.3	322.0	291.0	329.8	376.7	398.5	380.2	361.0	366.4	367.2
67.5°	3085.3	1262.3	282.1	265.1	300.4	346.2	375.9	361.0	341.4	355.4	355.6
70°	3238.0	1160.4	247.1	239.5	270.0	316.9	351.3	340.0	320.1	334.1	332.7
72°	3013.3	936.8	224.4	220.1	247.1	292.6	329.5	320.4	300.7	310.1	306.6
72.5°	2942.5	893.2	218.8	215.3	240.9	286.4	323.9	315.5	295.8	303.9	300.7
75°	2624.8	775.7	188.1	188.9	210.2	256.2	292.1	289.4	269.2	270.0	268.9
77.5°	1903.8	568.8	158.4	163.8	178.9	225.2	260.0	258.4	236.3	232.3	231.4
80°	883.5	290.2	129.1	131.5	147.1	188.3	221.7	219.6	201.8	196.7	193.7
82.5°	302.6	137.9	97.0	98.6	114.0	151.7	192.4	191.0	176.2	166.2	160.0
85°	108.0	68.7	67.9	66.3	81.4	119.4	167.6	160.3	138.5	118.0	117.5
87.5°	35.0	29.4	35.0	34.8	47.4	80.8	121.8	103.7	100.5	83.5	81.9
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)