

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: P319700

Luminaire Tested: **GAN-SA6D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46410 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

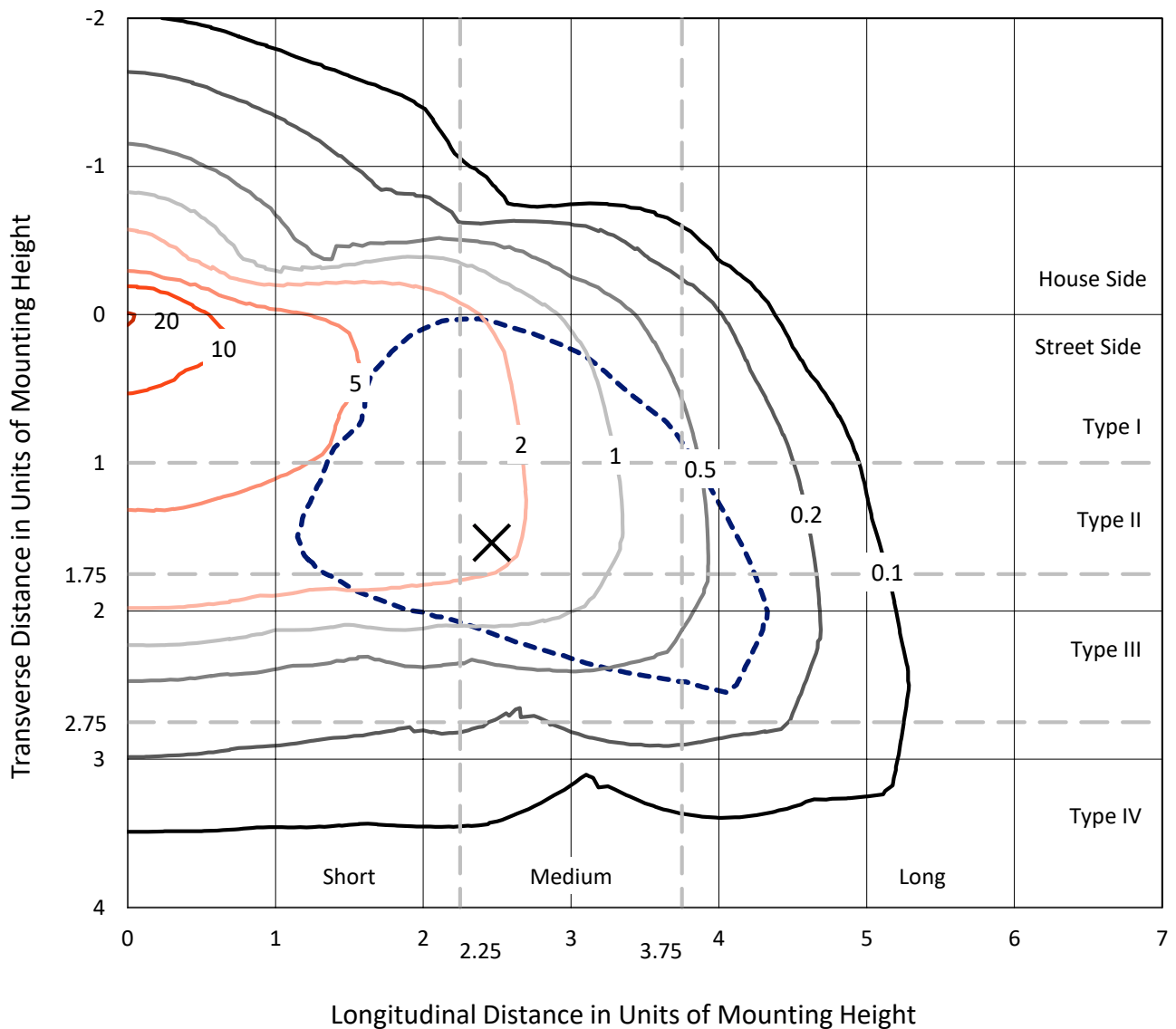
Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

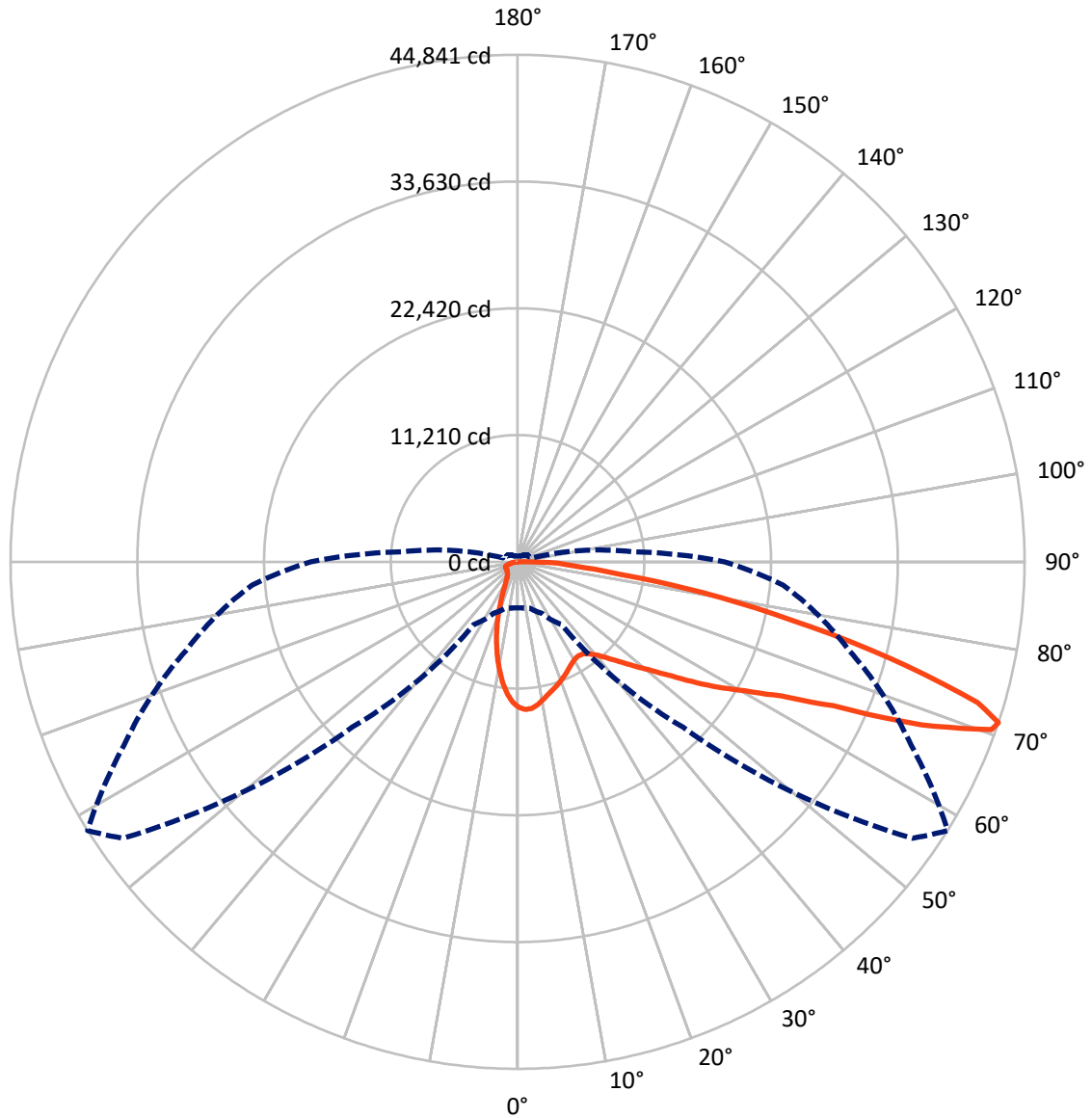
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6938.6	0.0	6938.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39471.4	0.0	39471.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	46410.0	0.0	46410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.3	2.4
10°-20°	2466.7	5.3
20°-30°	3134.9	6.8
30°-40°	3993.3	8.6
40°-50°	5662.6	12.2
50°-60°	8763.1	18.9
60°-70°	11929.9	25.7
70°-80°	7958.6	17.1
80°-90°	1391.4	3.0
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°	46410.0	100.0
0°-180°	46410.0	100.0

Coefficient of Utilization

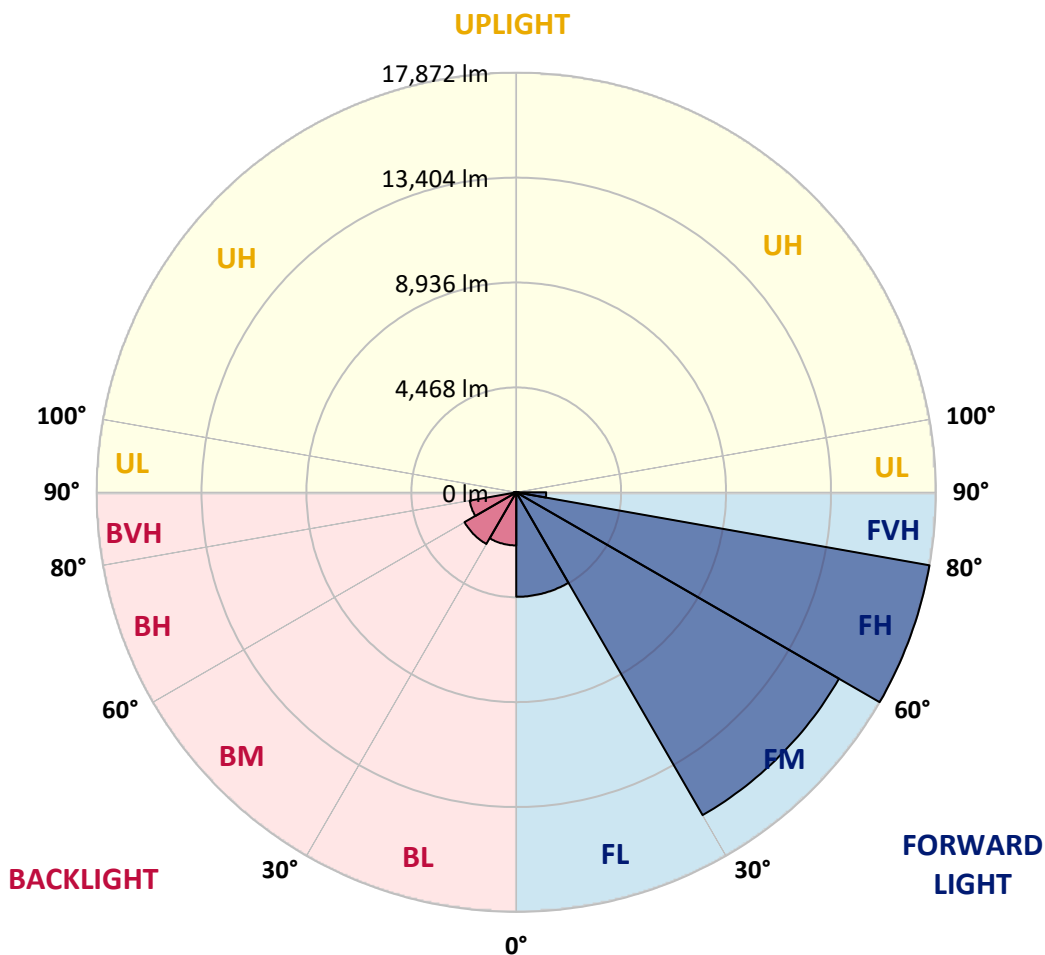


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4449.2	9.6			
FM (30°-60°)	15874.5	34.2			
FH (60°-80°)	17871.9	38.5			G5
FVH (80°-90°)	1275.8	2.7			G5
BL (0°-30°)	2261.8	4.9	B3/2500		
BM (30°-60°)	2544.6	5.5	B3/5000		
BH (60°-80°)	2016.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	115.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7
2.5°	13199.8	13182.0	13188.5	13175.5	13144.8	13114.1	13068.8	13076.9	13013.9	12920.1	12803.7
5°	12950.8	12944.4	12992.9	13020.3	13043.0	13025.2	13012.3	13028.4	12936.3	12806.9	12604.9
7.5°	12428.6	12357.5	12418.9	12511.1	12598.4	12664.7	12752.0	12763.3	12705.1	12569.3	12304.2
10°	11686.6	11618.7	11709.2	11853.1	12027.7	12186.2	12362.4	12394.7	12406.0	12283.2	11961.4
12.5°	10917.1	10865.4	10955.9	11158.0	11447.4	11691.5	11972.8	12021.3	12121.5	12039.0	11644.6
15°	10228.4	10209.0	10318.9	10517.8	10850.8	11224.3	11630.0	11718.9	11888.7	11861.2	11397.2
17.5°	9633.5	9628.6	9712.7	9921.3	10289.8	10761.9	11288.9	11439.3	11691.5	11723.8	11193.5
20°	9190.5	9180.8	9239.0	9392.6	9772.5	10307.6	10920.3	11127.3	11491.0	11604.2	10983.4
22.5°	8952.9	8951.3	8952.9	9025.6	9336.0	9834.0	10561.4	10813.6	11295.4	11508.8	10750.6
25°	8912.5	8907.6	8872.1	8864.0	9040.2	9437.9	10205.8	10483.8	11109.5	11442.5	10529.1
27.5°	9017.6	9024.0	8977.1	8901.2	8936.7	9177.6	9897.0	10194.5	10960.7	11429.6	10375.5
30°	9235.8	9232.6	9192.2	9112.9	9043.4	9080.6	9677.1	9974.6	10860.5	11486.2	10270.4
32.5°	9476.7	9494.5	9486.4	9442.7	9339.3	9190.5	9610.9	9901.9	10831.4	11622.0	10225.2
35°	9766.1	9785.5	9843.7	9877.6	9756.4	9517.1	9753.1	10005.3	10915.5	11877.4	10297.9
37.5°	10040.9	10091.0	10254.3	10398.2	10294.7	10028.0	10131.4	10310.9	11175.8	12279.9	10493.5
40°	10357.7	10401.4	10668.1	10973.7	10957.5	10681.1	10740.9	10860.5	11634.9	12857.1	10847.6
42.5°	10669.8	10757.1	11143.4	11576.7	11701.2	11457.1	11552.4	11615.5	12281.5	13621.7	11465.1
45°	11085.2	11179.0	11715.7	12237.9	12528.9	12391.5	12543.4	12567.7	13094.7	14662.8	12362.4
47.5°	11714.1	11820.8	12446.4	12994.5	13439.0	13453.6	13704.2	13694.5	14109.9	15854.3	13492.4
50°	12693.8	12847.4	13359.8	13872.3	14412.3	14712.9	15047.6	15000.7	15327.3	17123.3	14793.8
52.5°	13977.4	14048.5	14428.4	14806.7	15477.6	16151.7	16631.9	16589.9	16707.9	18428.0	16271.4
55°	15307.9	15361.2	15518.0	15725.0	16627.0	17726.3	18741.6	18675.3	18376.2	19782.7	17731.2
57.5°	16504.2	16612.5	16720.8	16806.5	17784.5	19372.1	20899.8	20904.6	20186.9	21244.1	19239.5
60°	16690.1	16785.5	17501.6	18177.4	19764.9	21567.5	23210.0	23161.5	22060.5	22830.0	20920.8
62.5°	14753.4	14968.4	16164.7	17962.4	21672.5	25583.2	26157.1	26097.3	24301.2	24784.5	22878.5
65°	10572.8	10816.9	12260.5	14961.9	20747.8	30007.9	31475.8	30670.7	27356.6	27188.5	25170.9
67.5°	6099.5	6157.7	6783.4	8952.9	15797.7	30239.1	39589.6	38462.9	32101.4	29915.7	26292.9
70°	4510.4	4508.8	4657.5	5509.5	8548.7	24679.5	43448.5	44458.9	37096.8	30813.0	24707.0
71°	4078.8	4083.6	4250.1	5014.8	6770.4	20657.3	42628.9	44840.5	38412.7	30370.0	23559.1
72.5°	3488.7	3504.9	3736.0	4497.5	5695.4	14245.7	39098.2	42551.3	39036.8	29277.2	21763.1
75°	2646.4	2683.6	3003.7	3791.0	5205.5	7224.7	28695.2	33978.3	34678.3	25833.7	16171.1
77.5°	1888.2	1930.3	2292.4	3188.0	4948.5	5444.8	19216.9	24784.5	25520.1	16555.9	7294.2
80°	1193.1	1243.2	1516.4	2536.5	4649.4	5170.0	12076.2	16659.4	13915.9	5297.7	1855.9
82.5°	700.0	738.8	940.9	1657.0	3797.5	4979.2	7105.1	9234.2	5415.7	1600.5	843.9
85°	405.8	423.6	586.8	1055.7	2758.0	4699.5	5220.1	5161.9	2350.6	782.4	399.3
87.5°	189.1	210.2	347.6	551.3	1530.9	3406.2	4125.6	3564.7	1461.4	367.0	187.5
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°	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7	12858.7
2.5°	12747.1	12719.6	12604.9	12503.0	12396.3	12257.3	12103.7	12084.3	11990.5	12008.3	11976.0
5°	12494.9	12425.4	12149.0	11898.4	11602.6	11337.4	11049.7	10917.1	10726.3	10713.4	10664.9
7.5°	12134.4	12005.1	11576.7	11101.4	10626.1	10173.5	9725.6	9431.4	9130.7	9003.0	8991.7
10°	11728.6	11508.8	10878.3	10175.1	9489.6	8828.4	8188.2	7714.6	7287.8	7085.7	7077.6
12.5°	11343.9	11018.9	10154.1	9197.0	8259.4	7402.5	6524.7	5902.3	5367.2	5187.8	5111.8
15°	11017.3	10559.8	9449.2	8225.4	7087.3	5897.5	4898.4	4243.7	3749.0	3577.6	3545.3
17.5°	10700.5	10112.0	8726.6	7244.1	5868.4	4560.5	3559.8	3073.2	2809.7	2740.2	2738.6
20°	10385.2	9651.3	7971.6	6240.2	4689.8	3411.1	2737.0	2518.7	2429.8	2421.7	2408.8
22.5°	10028.0	9163.1	7177.8	5233.0	3660.0	2682.0	2326.3	2239.0	2227.7	2256.8	2256.8
25°	9693.3	8678.1	6372.8	4246.9	2846.9	2237.4	2077.4	2059.6	2090.3	2142.0	2146.9
27.5°	9381.3	8210.9	5587.1	3370.7	2281.1	1970.7	1904.4	1925.4	1980.4	2040.2	2041.8
30°	9124.3	7769.5	4824.0	2656.1	1927.0	1771.8	1760.5	1802.5	1862.4	1909.2	1920.6
32.5°	8925.4	7392.8	4086.8	2135.6	1695.8	1623.1	1632.8	1668.4	1705.5	1731.4	1749.2
35°	8833.3	7069.5	3406.2	1800.9	1548.7	1508.3	1521.2	1540.6	1556.8	1576.2	1590.8
37.5°	8849.4	6818.9	2798.4	1592.4	1450.1	1429.1	1429.1	1429.1	1429.1	1438.8	1440.4
40°	8999.8	6675.1	2303.7	1459.8	1383.8	1361.2	1343.4	1327.3	1314.3	1320.8	1317.6
42.5°	9384.5	6662.1	1941.6	1375.8	1330.5	1293.3	1257.7	1235.1	1218.9	1225.4	1228.6
45°	10037.7	6823.8	1697.5	1315.9	1280.4	1223.8	1178.5	1154.3	1143.0	1164.0	1167.2
47.5°	10883.2	7176.2	1548.7	1272.3	1233.5	1159.1	1110.6	1088.0	1091.2	1121.9	1130.0
50°	11972.8	7748.5	1477.6	1244.8	1201.2	1104.2	1054.0	1034.6	1044.3	1088.0	1097.7
52.5°	13169.1	8573.0	1485.7	1236.7	1180.1	1063.7	1010.4	987.8	1003.9	1044.3	1052.4
55°	14549.7	9564.0	1619.9	1248.0	1149.4	1037.9	974.8	936.0	949.0	986.1	992.6
57.5°	16083.8	10698.9	1889.8	1244.8	1110.6	1013.6	937.6	879.4	889.1	911.8	918.2
60°	17681.1	12069.8	2308.5	1254.5	1092.8	984.5	887.5	814.8	811.5	830.9	834.2
62.5°	19598.4	13655.7	2787.1	1261.0	1104.2	947.3	821.2	750.1	740.4	745.3	748.5
65°	21573.9	14803.5	2607.6	1235.1	1139.7	916.6	763.0	687.1	669.3	666.1	667.7
67.5°	21635.4	13573.2	1828.4	1183.4	1154.3	900.5	719.4	633.7	604.6	593.3	591.7
70°	19402.8	11027.0	1424.3	1128.4	1096.1	874.6	679.0	590.1	546.4	528.6	527.0
71°	18313.2	10150.8	1349.9	1100.9	1052.4	848.7	661.2	570.7	525.4	506.0	502.8
72.5°	16604.4	9100.0	1259.4	1057.3	968.4	782.4	627.3	543.2	496.3	473.7	468.8
75°	11916.2	5950.8	1081.5	942.5	801.8	624.0	549.7	488.2	447.8	420.3	417.1
77.5°	4591.2	2368.4	818.0	784.1	614.3	488.2	452.7	421.9	392.8	365.4	363.7
80°	1419.4	1058.9	596.5	590.1	444.6	363.7	352.4	344.3	333.0	303.9	297.5
82.5°	758.2	607.9	410.6	381.5	291.0	242.5	255.4	258.7	260.3	229.6	226.3
85°	362.1	321.7	231.2	216.6	169.7	135.8	156.8	169.7	171.4	140.6	130.9
87.5°	173.0	168.1	108.3	82.4	63.0	45.3	55.0	67.9	74.4	53.3	46.9
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)