

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386628

Luminaire Tested: GAW-SA2B-735-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8120.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

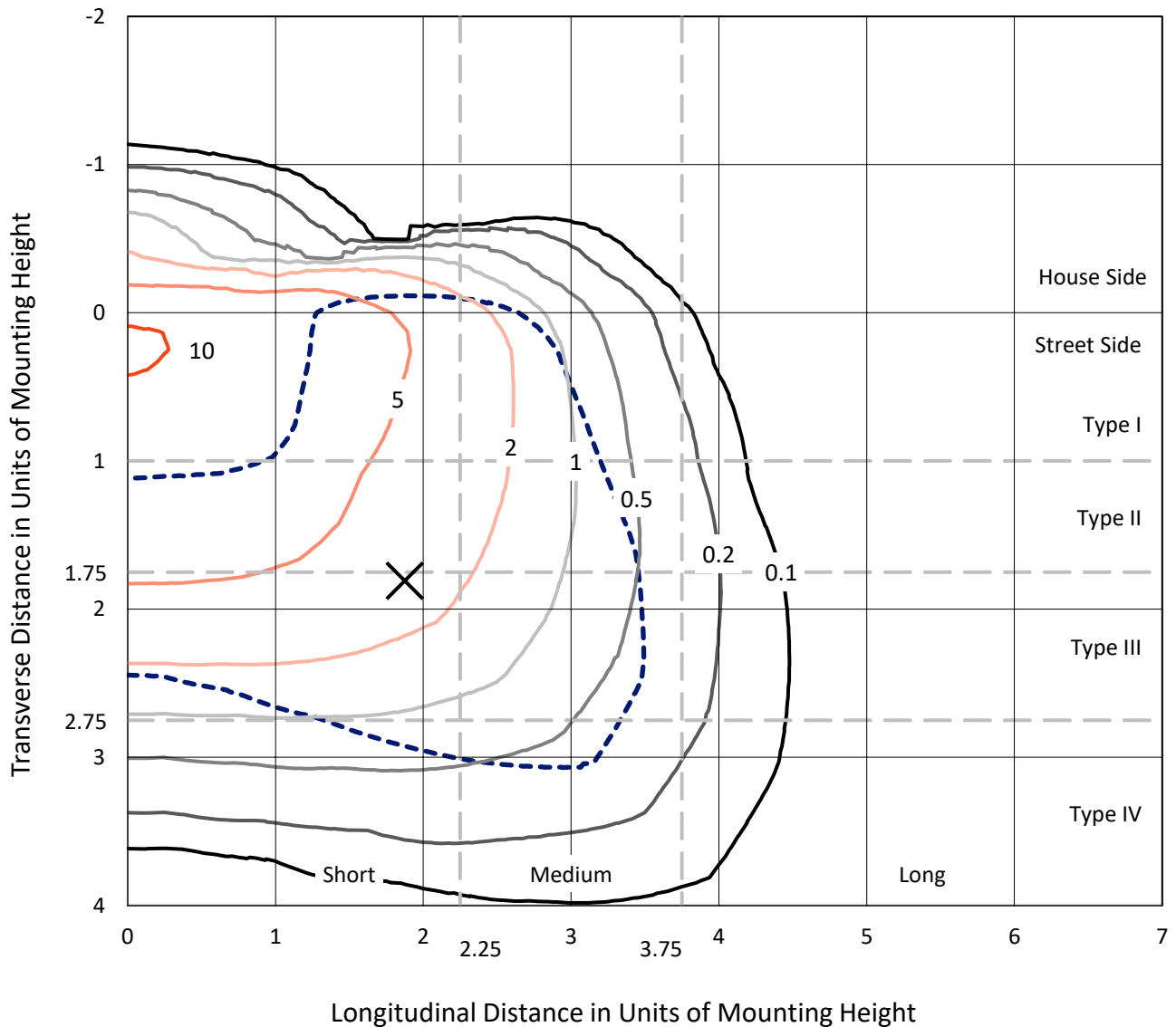
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

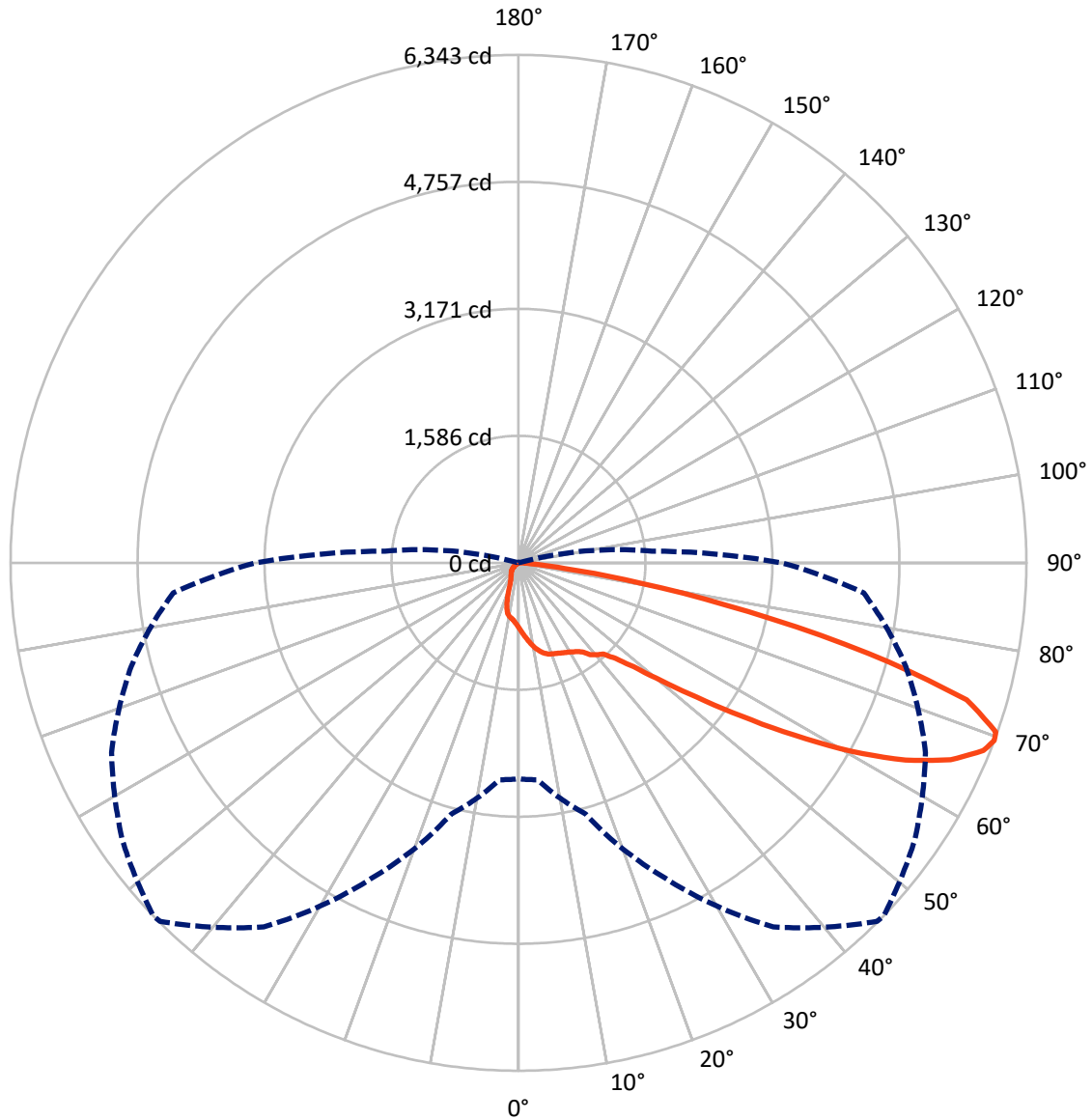
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P386628
CATALOG NUMBER: GAW-SA2B-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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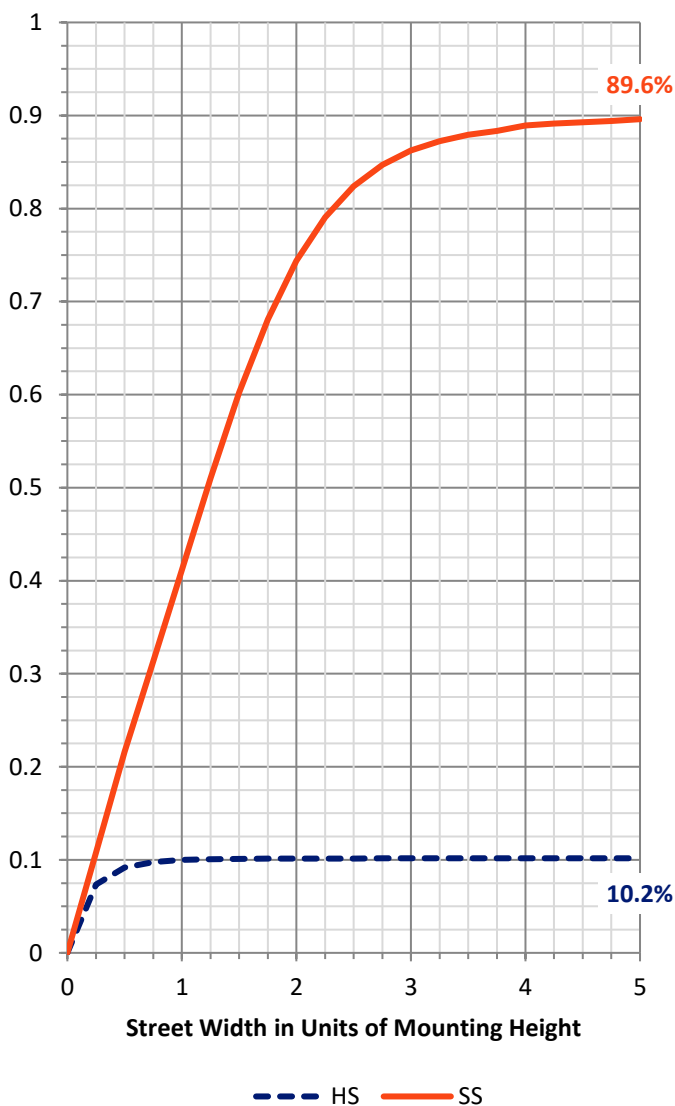
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.4	0.0	833.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7286.8	0.0	7286.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	8120.1	0.0	8120.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.0
10°-20°	245.7	3.0
20°-30°	386.4	4.8
30°-40°	554.1	6.8
40°-50°	957.6	11.8
50°-60°	1891.9	23.3
60°-70°	2644.1	32.6
70°-80°	1277.4	15.7
80°-90°	82.1	1.0
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°	8120.1	100.0
0°-180°	8120.1	100.0

Coefficient of Utilization

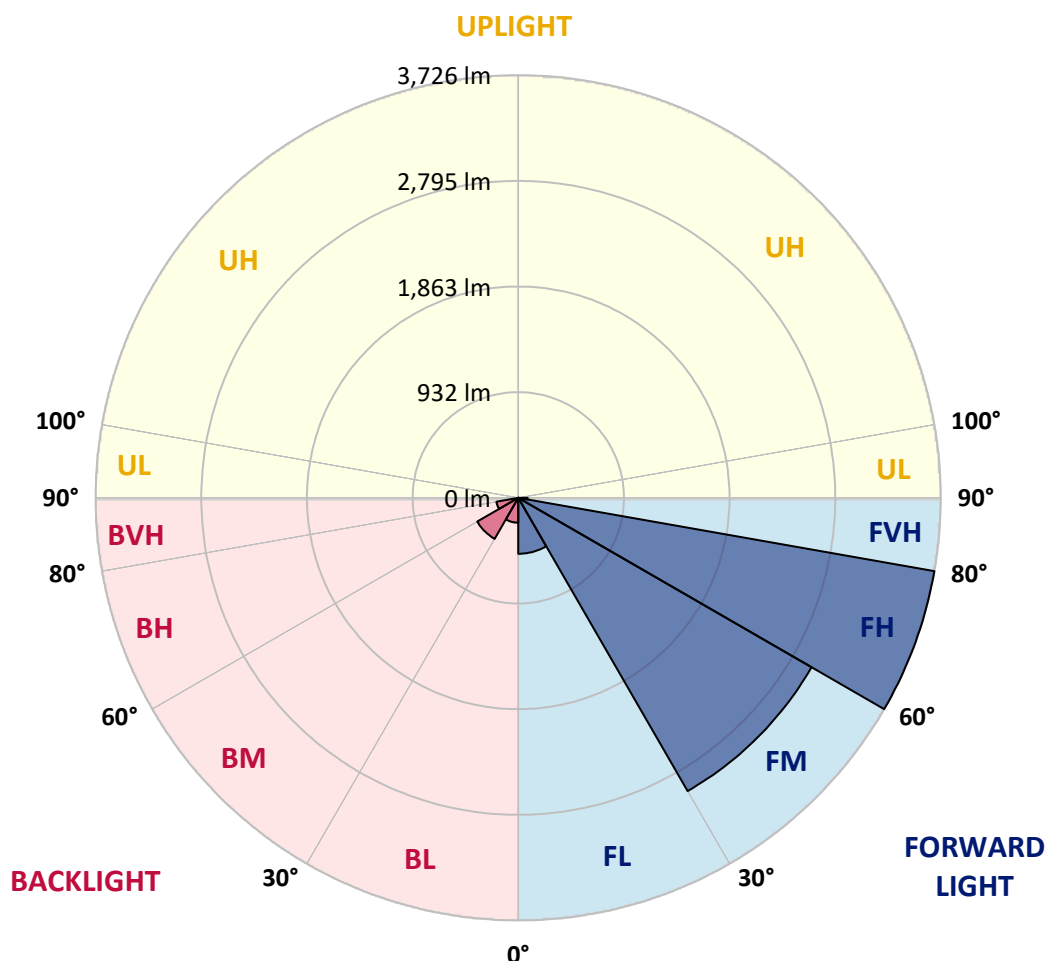


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.4	6.1			
FM (30°-60°)	2985.9	36.8			
FH (60°-80°)	3726.0	45.9			G2/5000
FVH (80°-90°)	81.4	1.0			G1/100
BL (0°-30°)	219.6	2.7	B1/500		
BM (30°-60°)	417.6	5.1	B1/1000		
BH (60°-80°)	195.4	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





REPORT NUMBER: P386628

CATALOG NUMBER: GAW-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	903.8	902.7	897.4	895.1	882.1	874.5	871.5	862.0	848.3	834.6	819.3
5°	1006.7	1006.3	996.3	986.8	962.5	939.6	935.4	913.4	882.6	853.6	824.6
7.5°	1111.7	1106.8	1096.8	1078.6	1043.2	1006.7	1003.2	972.0	928.2	886.3	844.8
10°	1200.8	1197.7	1184.9	1157.1	1115.5	1074.0	1069.9	1031.4	981.9	930.5	877.6
12.5°	1270.1	1267.8	1250.7	1216.0	1171.9	1128.9	1123.1	1088.9	1036.0	978.5	916.0
15°	1312.3	1311.2	1290.3	1253.3	1209.9	1172.6	1167.7	1137.6	1088.5	1028.4	957.9
17.5°	1322.3	1322.7	1301.0	1263.6	1227.8	1201.2	1197.4	1174.5	1133.4	1073.6	999.8
20°	1300.2	1304.7	1285.3	1253.0	1230.9	1216.8	1213.8	1200.1	1165.4	1109.0	1033.2
22.5°	1268.9	1271.3	1257.9	1236.2	1227.0	1229.8	1228.3	1220.6	1191.2	1139.5	1066.4
25°	1250.0	1250.0	1241.9	1223.7	1229.8	1246.1	1246.5	1245.0	1221.8	1176.8	1106.8
27.5°	1249.1	1246.9	1237.7	1224.0	1240.8	1265.9	1267.4	1277.7	1263.2	1222.2	1157.1
30°	1279.6	1276.9	1257.6	1239.6	1260.9	1288.0	1291.8	1314.2	1307.0	1271.3	1212.9
32.5°	1350.8	1341.3	1298.2	1268.9	1284.9	1317.3	1322.3	1358.1	1369.4	1331.8	1267.1
35°	1448.3	1418.2	1356.1	1324.5	1326.0	1360.0	1364.5	1417.1	1450.9	1387.4	1309.0
37.5°	1582.7	1567.8	1467.0	1382.4	1389.3	1440.7	1454.0	1511.1	1501.5	1417.8	1356.5
40°	1877.4	1854.1	1746.8	1544.6	1449.8	1506.1	1510.4	1540.8	1541.5	1486.7	1455.5
42.5°	2278.6	2269.1	2156.0	1838.9	1569.0	1549.9	1557.5	1608.9	1666.4	1632.2	1630.6
45°	2722.9	2717.9	2598.1	2229.6	1809.9	1693.4	1702.9	1771.9	1881.9	1889.5	1937.9
47.5°	3080.5	3078.1	3009.3	2665.4	2178.9	1936.7	1939.8	2012.8	2206.3	2301.9	2379.1
50°	3406.3	3417.3	3362.9	3137.2	2681.4	2317.9	2310.6	2359.4	2670.0	2826.4	2922.5
52.5°	3859.4	3875.0	3722.3	3577.3	3208.8	2790.7	2785.0	2836.0	3227.4	3344.6	3361.8
55°	4259.5	4232.9	4112.2	4070.3	3851.8	3374.8	3373.2	3418.2	3766.5	3816.4	3847.9
57.5°	4436.2	4426.0	4484.2	4580.1	4525.2	4064.9	4061.6	4027.3	4248.9	4254.2	4351.3
60°	4547.7	4560.3	4738.9	5034.7	5171.4	4807.8	4785.6	4576.6	4709.6	4697.7	4801.7
62.5°	4464.0	4488.7	4810.1	5303.1	5654.9	5456.2	5424.9	5080.0	5103.3	5062.5	5159.2
65°	4019.3	4057.7	4584.3	5252.4	5894.7	5962.9	5931.3	5524.3	5415.8	5348.8	5295.1
67.5°	3263.5	3286.4	3836.2	4812.0	5786.6	6265.2	6258.7	5913.8	5651.9	5300.4	4883.9
69°	2697.0	2719.5	3248.7	4348.3	5548.6	6329.9	6342.5	6038.6	5606.9	5006.5	4327.3
70°	2284.3	2308.3	2801.4	3950.8	5272.6	6299.9	6322.3	6026.9	5478.3	4666.2	3838.8
72.5°	1198.1	1218.7	1724.6	2721.8	4298.4	5784.7	5852.9	5517.4	4643.7	3388.9	2269.9
75°	376.5	388.3	673.5	1422.8	2943.0	4497.9	4513.5	4328.1	3297.5	1864.0	945.3
77.5°	143.5	140.1	224.2	524.3	1487.9	2832.2	2927.8	2704.7	1730.4	659.1	218.1
80°	77.3	77.7	116.5	217.0	636.5	1455.5	1536.2	1310.8	614.8	205.6	50.3
82.5°	33.5	35.0	65.5	115.0	292.4	536.9	577.2	480.5	234.9	138.2	18.7
85°	7.2	8.0	31.6	62.5	119.2	150.8	158.0	155.8	149.6	107.4	7.2
87.5°	0.0	0.0	14.1	22.5	30.1	34.3	30.1	39.2	82.6	72.3	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386628

CATALOG NUMBER: GAW-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	814.4	807.5	795.7	782.8	773.6	764.1	756.5	753.1	749.3	746.6	750.0
5°	812.9	799.5	776.7	754.6	738.6	725.7	715.0	710.8	706.6	703.6	703.2
7.5°	826.2	807.5	772.5	740.1	715.3	697.9	683.4	677.3	672.3	670.1	668.2
10°	851.7	827.7	780.8	738.6	706.6	676.9	645.7	621.7	606.1	598.9	596.2
12.5°	884.8	854.8	796.9	746.6	700.1	643.0	576.8	519.7	482.8	470.5	463.3
15°	923.6	886.3	817.8	756.9	676.6	572.2	459.9	385.2	351.1	344.2	336.6
17.5°	960.9	919.9	842.9	758.7	624.8	457.2	337.0	286.3	273.0	277.6	278.7
20°	993.7	952.9	867.6	742.0	530.8	343.1	260.8	248.2	253.2	261.9	263.5
22.5°	1026.9	985.0	890.5	697.9	410.4	260.4	234.9	237.9	242.9	251.7	253.2
25°	1067.2	1023.8	911.9	616.8	308.0	221.6	223.1	227.7	232.6	240.6	241.4
27.5°	1113.7	1072.9	926.0	511.3	228.5	203.7	208.6	215.5	220.5	228.1	229.6
30°	1175.3	1137.6	930.5	402.1	191.5	187.7	189.9	198.4	205.6	212.4	213.6
32.5°	1233.1	1201.6	915.3	303.4	177.5	172.8	172.8	177.8	186.2	192.7	194.2
35°	1286.5	1265.9	866.5	222.0	166.7	159.1	155.4	155.4	160.6	166.0	167.5
37.5°	1356.9	1356.1	787.7	177.1	156.5	147.8	139.7	133.7	131.7	132.8	133.7
40°	1477.6	1478.7	684.9	158.8	147.8	135.9	123.7	112.7	102.4	99.0	98.6
42.5°	1666.0	1648.9	577.2	150.0	140.1	123.7	105.5	90.7	74.6	69.7	69.3
45°	1965.3	1863.7	462.9	142.0	132.1	110.0	87.2	67.0	54.1	50.3	50.3
47.5°	2401.2	2145.8	358.7	133.3	121.5	94.4	65.9	48.4	39.5	37.7	38.0
50°	2852.0	2422.1	274.9	122.2	108.5	78.1	48.8	35.0	30.1	30.1	30.4
52.5°	3251.7	2624.7	214.4	110.4	92.5	61.3	36.9	27.4	25.1	24.7	25.1
55°	3626.0	2755.3	164.1	96.7	73.5	45.7	28.2	22.5	20.9	20.2	19.8
57.5°	3987.0	2820.1	123.0	78.1	53.3	33.2	22.5	19.1	17.5	16.3	16.0
60°	4227.2	2767.5	84.5	57.5	36.9	24.0	18.7	16.3	14.5	13.3	13.0
62.5°	4362.7	2623.9	54.5	41.5	26.3	17.8	14.8	13.7	11.1	9.9	9.9
65°	4307.9	2387.1	38.0	29.7	19.1	13.3	11.1	11.1	8.0	6.5	6.1
67.5°	3817.5	2016.7	28.9	22.1	13.7	9.9	8.4	9.5	5.0	3.0	3.0
69°	3284.5	1671.4	24.7	18.3	11.5	8.0	7.2	8.7	3.4	2.3	1.9
70°	2854.6	1441.8	22.5	16.0	9.5	6.9	6.5	8.4	3.4	1.9	1.5
72.5°	1707.9	804.1	17.1	11.5	6.1	5.4	5.4	9.5	3.4	1.9	1.5
75°	690.3	283.2	12.6	8.0	4.6	4.6	6.5	12.2	3.0	1.5	1.1
77.5°	156.5	62.1	7.2	5.0	3.0	4.6	7.6	9.5	1.9	0.8	0.0
80°	38.0	15.2	4.6	3.0	1.9	3.4	5.7	5.4	0.4	0.0	0.0
82.5°	12.6	5.4	1.9	1.5	0.4	1.1	2.6	1.5	0.0	0.0	0.0
85°	5.4	3.0	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)