

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: P385825

Luminaire Tested: GAW-SA1B-830-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-830-U-SL2
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

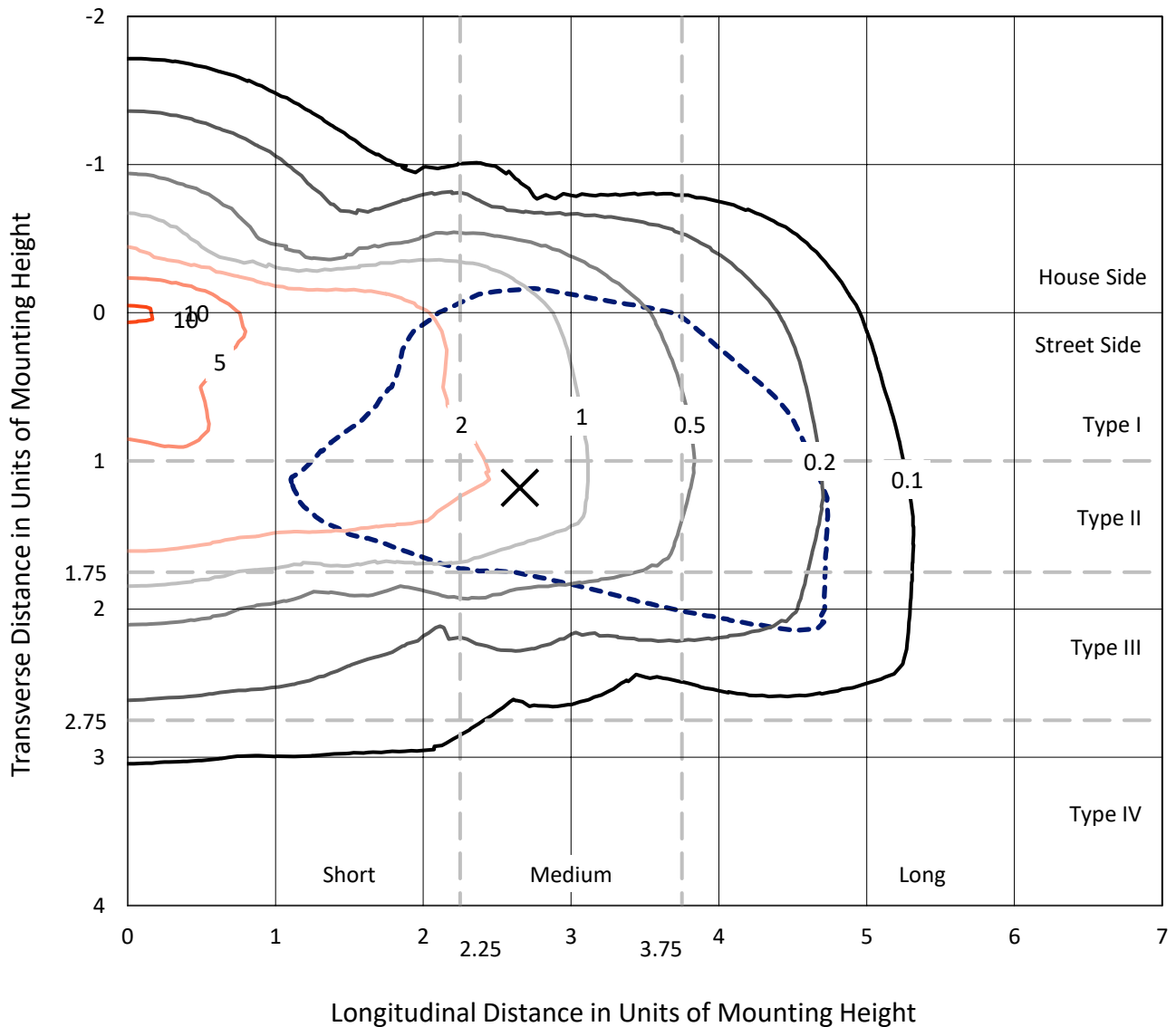
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

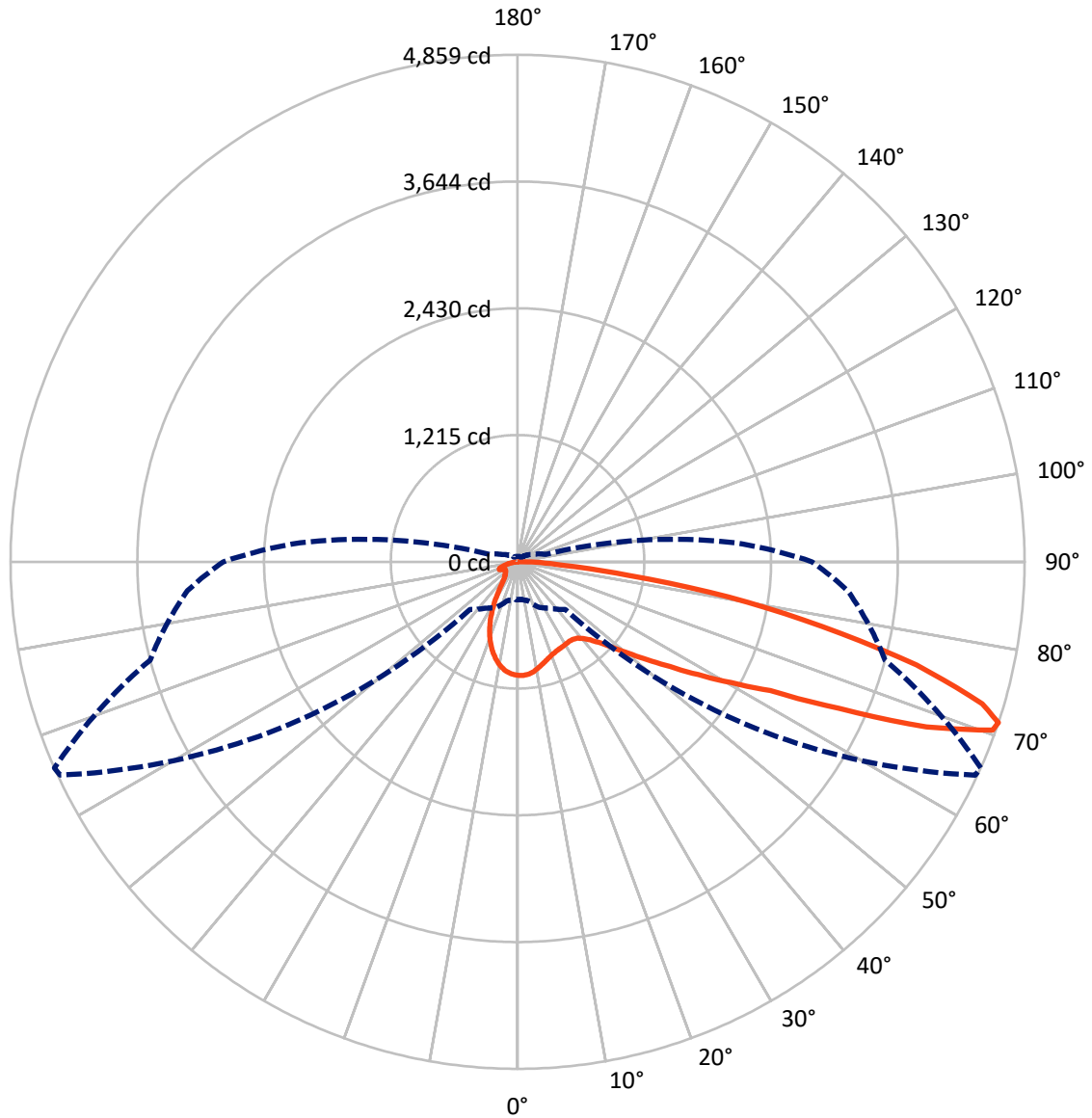
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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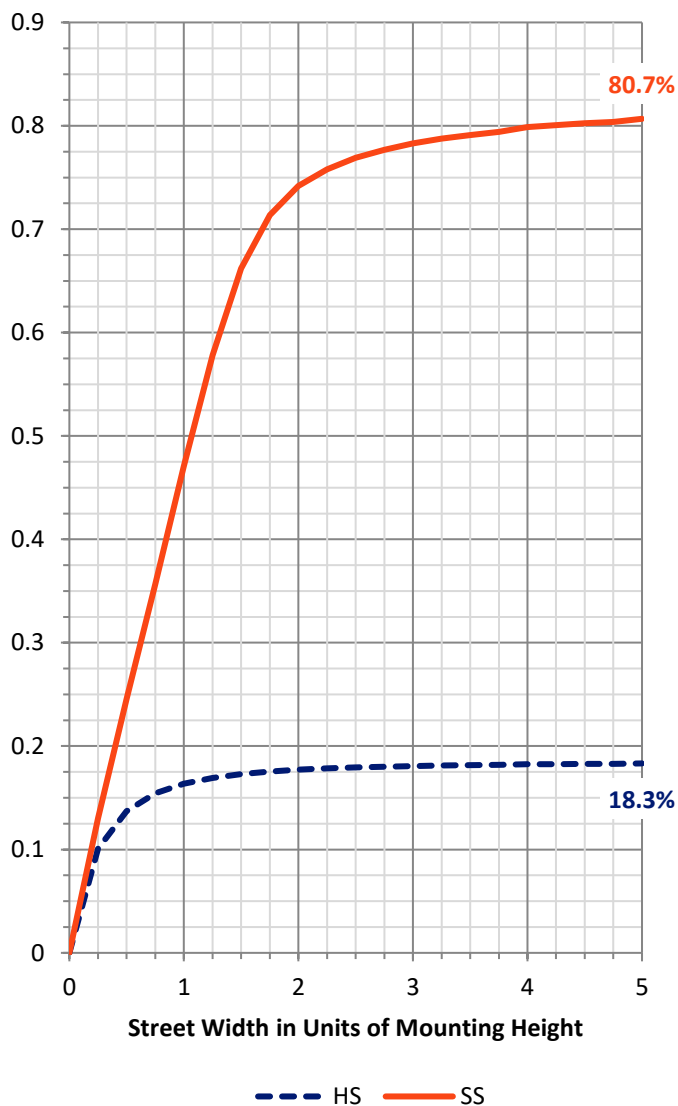
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.5	0.0	880.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3870.5	0.0	3870.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	4751.0	0.0	4751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	2.0
10°-20°	229.8	4.8
20°-30°	308.6	6.5
30°-40°	406.0	8.5
40°-50°	590.6	12.4
50°-60°	922.7	19.4
60°-70°	1155.8	24.3
70°-80°	881.6	18.6
80°-90°	160.1	3.4
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°	4751.0	100.0
0°-180°	4751.0	100.0

Coefficient of Utilization

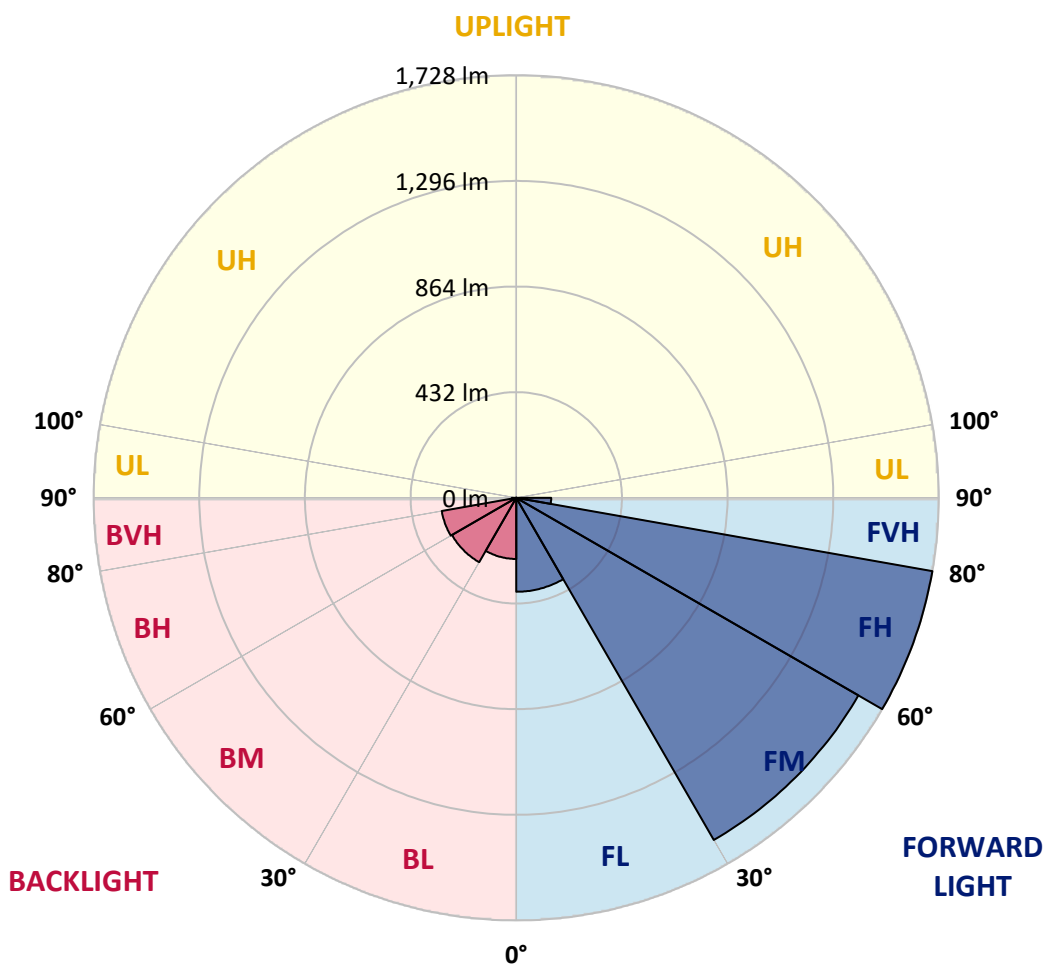


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.2	8.1			
FM (30°-60°)	1615.6	34.0			
FH (60°-80°)	1728.0	36.4			G1/1800
FVH (80°-90°)	142.8	3.0			G2/225
BL (0°-30°)	250.0	5.3	B1/500		
BM (30°-60°)	303.7	6.4	B1/1000		
BH (60°-80°)	309.4	6.5	B1/500		G1/500
BVH (80°-90°)	17.3	0.4			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°	66°	75°	85°
0°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1068.2	1066.5	1071.5	1076.6	1078.5	1081.8	1086.7	1089.5	1089.3	1089.8	1088.2
5°	997.3	995.2	1005.0	1013.1	1028.5	1045.9	1067.0	1082.1	1082.5	1091.0	1093.3
7.5°	930.2	928.8	940.1	953.0	970.9	997.5	1031.8	1064.2	1066.2	1089.3	1097.4
10°	876.4	876.1	887.1	901.2	922.0	951.7	991.1	1038.7	1041.6	1081.5	1098.0
12.5°	834.4	835.1	844.6	860.7	882.7	913.7	956.3	1010.0	1014.7	1069.0	1094.3
15°	803.4	806.1	813.8	830.0	851.7	883.2	927.0	983.4	990.6	1055.1	1092.1
17.5°	785.7	788.7	794.1	807.5	827.9	858.2	899.7	961.6	968.1	1044.4	1092.3
20°	780.5	782.9	786.0	794.3	811.5	839.0	878.2	941.9	948.9	1035.9	1093.9
22.5°	790.8	792.6	792.9	792.3	802.8	825.3	862.7	927.4	935.0	1030.3	1095.1
25°	812.9	815.4	813.6	807.5	804.1	817.9	854.6	917.9	925.5	1026.2	1092.8
27.5°	846.2	846.6	845.1	837.2	821.0	818.7	852.2	912.4	919.6	1021.4	1088.0
30°	891.5	893.7	891.0	880.4	853.8	831.8	855.1	906.9	913.5	1015.4	1080.3
32.5°	944.5	949.8	949.6	938.4	900.4	861.2	867.2	903.7	908.7	1009.0	1071.0
35°	999.5	1006.7	1020.1	1015.4	968.3	907.6	890.5	908.9	912.4	1008.1	1064.4
37.5°	1056.5	1063.8	1091.5	1104.3	1049.2	974.0	927.3	927.4	929.1	1018.2	1063.9
40°	1116.2	1124.0	1165.6	1198.9	1154.0	1058.2	986.5	966.2	964.4	1042.8	1073.6
42.5°	1199.9	1206.8	1256.8	1299.3	1270.3	1165.9	1068.4	1025.9	1022.1	1091.0	1104.6
45°	1305.7	1311.6	1364.8	1410.2	1395.3	1289.0	1171.2	1108.0	1107.4	1171.4	1167.4
47.5°	1431.5	1436.1	1483.8	1527.8	1533.2	1430.5	1300.5	1234.8	1224.2	1281.6	1264.7
50°	1562.6	1567.7	1600.1	1647.4	1687.6	1620.0	1466.8	1390.2	1375.9	1427.1	1402.5
52.5°	1649.4	1656.1	1684.3	1744.2	1861.1	1827.7	1663.5	1578.5	1556.8	1603.4	1584.6
55°	1610.6	1625.7	1668.9	1764.8	1999.9	2144.9	1906.1	1798.1	1773.7	1812.4	1801.3
57.5°	1434.6	1455.3	1514.2	1662.3	2019.4	2424.4	2272.8	2056.8	2039.6	2028.4	2033.5
60°	1113.0	1132.8	1205.8	1398.9	1883.4	2628.5	2824.8	2375.7	2350.8	2245.3	2249.9
62.5°	787.7	777.7	827.7	968.9	1530.4	2652.4	3452.9	2802.2	2720.2	2474.3	2454.1
65°	600.7	598.4	620.9	665.8	927.0	2365.9	3827.1	3519.0	3390.9	2743.6	2696.1
67.5°	493.6	489.5	511.6	577.1	596.9	1526.3	3835.3	4350.7	4224.8	3078.9	2975.9
70°	405.8	401.2	421.9	506.4	551.6	774.1	3227.9	4837.7	4830.9	3503.4	3187.2
71°	363.8	360.5	385.3	479.1	542.0	645.1	2786.9	4839.0	4859.2	3647.1	3174.7
72.5°	296.2	297.4	323.6	426.5	534.7	569.7	2048.3	4613.4	4656.1	3784.1	3061.4
75°	196.8	197.8	232.3	328.1	518.5	557.4	1125.8	3871.2	3949.6	3702.1	2793.5
77.5°	132.2	131.9	155.3	225.1	451.7	557.4	660.1	2895.4	2981.5	2945.7	2153.6
80°	91.0	90.4	106.9	155.3	342.0	564.1	510.3	2029.1	2055.2	1590.8	875.3
82.5°	55.8	56.3	69.9	109.7	232.8	507.7	481.8	1106.4	1078.0	446.2	218.7
85°	32.0	31.8	44.6	74.3	149.4	428.5	469.8	476.2	436.8	134.3	79.1
87.5°	11.5	12.3	23.9	41.2	85.6	298.4	398.6	247.7	223.2	60.7	35.8
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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1087.0	1088.0	1086.9	1080.3	1074.7	1065.7	1060.6	1053.6	1051.5	1050.5	1053.1
5°	1091.2	1091.5	1081.8	1064.6	1045.2	1022.4	1006.0	985.8	976.3	972.2	974.9
7.5°	1094.9	1093.4	1072.3	1039.3	1003.6	963.9	928.6	896.3	877.4	869.7	870.4
10°	1095.4	1089.2	1055.2	1004.2	948.8	890.5	836.4	786.5	755.0	734.5	740.8
12.5°	1090.3	1079.8	1030.1	958.8	881.8	802.5	729.3	654.5	609.5	588.7	589.4
15°	1086.4	1067.4	999.3	905.3	802.0	696.8	596.9	509.0	461.1	439.8	429.8
17.5°	1083.1	1053.9	963.5	845.1	707.6	574.3	454.2	375.8	349.6	343.3	340.7
20°	1078.5	1039.6	923.7	775.4	600.2	437.1	331.7	293.0	293.1	300.3	301.3
22.5°	1072.1	1023.4	881.2	697.1	484.9	318.4	260.0	248.8	260.2	273.9	276.4
25°	1062.6	1004.2	833.9	610.7	369.7	244.7	222.1	221.6	235.4	249.8	252.0
27.5°	1049.2	979.1	781.5	517.9	272.5	208.0	199.0	202.4	212.6	223.1	223.9
30°	1031.1	949.9	723.6	419.9	213.6	185.2	184.2	187.3	193.6	200.9	201.6
32.5°	1011.3	920.2	661.7	325.1	182.9	172.9	173.9	175.4	178.3	181.3	181.9
35°	993.2	889.9	598.4	247.0	168.3	164.9	164.2	163.9	164.2	163.2	163.4
37.5°	981.6	864.8	532.5	196.7	159.9	157.8	155.8	153.4	150.6	148.9	149.3
40°	977.3	846.1	465.7	169.9	153.0	151.6	147.8	142.5	139.3	138.3	138.3
42.5°	988.8	836.4	401.2	156.5	147.3	144.8	138.6	132.5	130.1	129.9	129.8
45°	1023.9	840.3	339.9	149.1	142.1	137.3	129.1	124.0	122.4	122.7	122.5
47.5°	1086.9	865.1	287.4	144.2	136.8	130.6	121.4	117.3	115.3	115.3	115.5
50°	1194.0	923.0	245.6	140.1	132.4	124.3	115.8	110.7	108.1	107.9	107.9
52.5°	1350.0	1026.7	219.5	136.6	127.5	118.8	110.2	103.8	100.7	100.1	99.7
55°	1545.5	1175.3	212.3	134.3	120.9	112.7	103.5	97.1	93.7	92.2	92.0
57.5°	1764.2	1356.1	226.5	131.6	114.2	105.5	96.1	90.1	86.4	84.6	84.5
60°	1985.5	1553.4	284.8	127.6	108.6	97.6	88.6	83.0	79.4	77.4	77.1
62.5°	2207.1	1761.4	403.7	127.3	104.7	90.1	80.9	76.1	72.7	70.5	70.0
65°	2457.1	1989.1	538.8	136.0	103.3	83.2	73.0	69.2	66.3	64.3	64.1
67.5°	2744.1	2246.1	525.9	153.9	107.8	76.9	65.6	62.7	60.5	58.9	58.7
70°	2878.8	2205.9	326.9	166.5	114.0	70.9	58.6	56.4	54.8	53.6	53.1
71°	2822.4	2094.5	274.1	165.0	113.3	68.2	55.8	54.1	52.5	51.5	51.0
72.5°	2668.5	1910.2	228.7	153.5	106.0	63.5	52.2	50.5	49.0	47.9	47.6
75°	2394.6	1705.9	183.1	122.7	84.5	53.6	45.8	44.0	42.8	42.2	41.5
77.5°	1760.2	1217.5	141.6	96.9	62.2	43.8	39.0	37.7	36.6	35.6	35.1
80°	674.3	471.6	95.3	72.3	45.6	34.6	31.5	30.8	29.7	29.0	29.0
82.5°	181.6	140.9	50.9	43.8	30.5	25.3	24.1	23.8	22.8	21.5	21.7
85°	73.5	62.2	28.5	24.1	18.7	14.9	16.2	16.4	15.3	13.6	13.8
87.5°	32.3	26.4	15.9	10.7	8.2	5.7	7.4	7.4	6.7	5.6	5.1
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)