

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: P385656

Luminaire Tested: GAW-SA1B-727-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-727-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4229 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

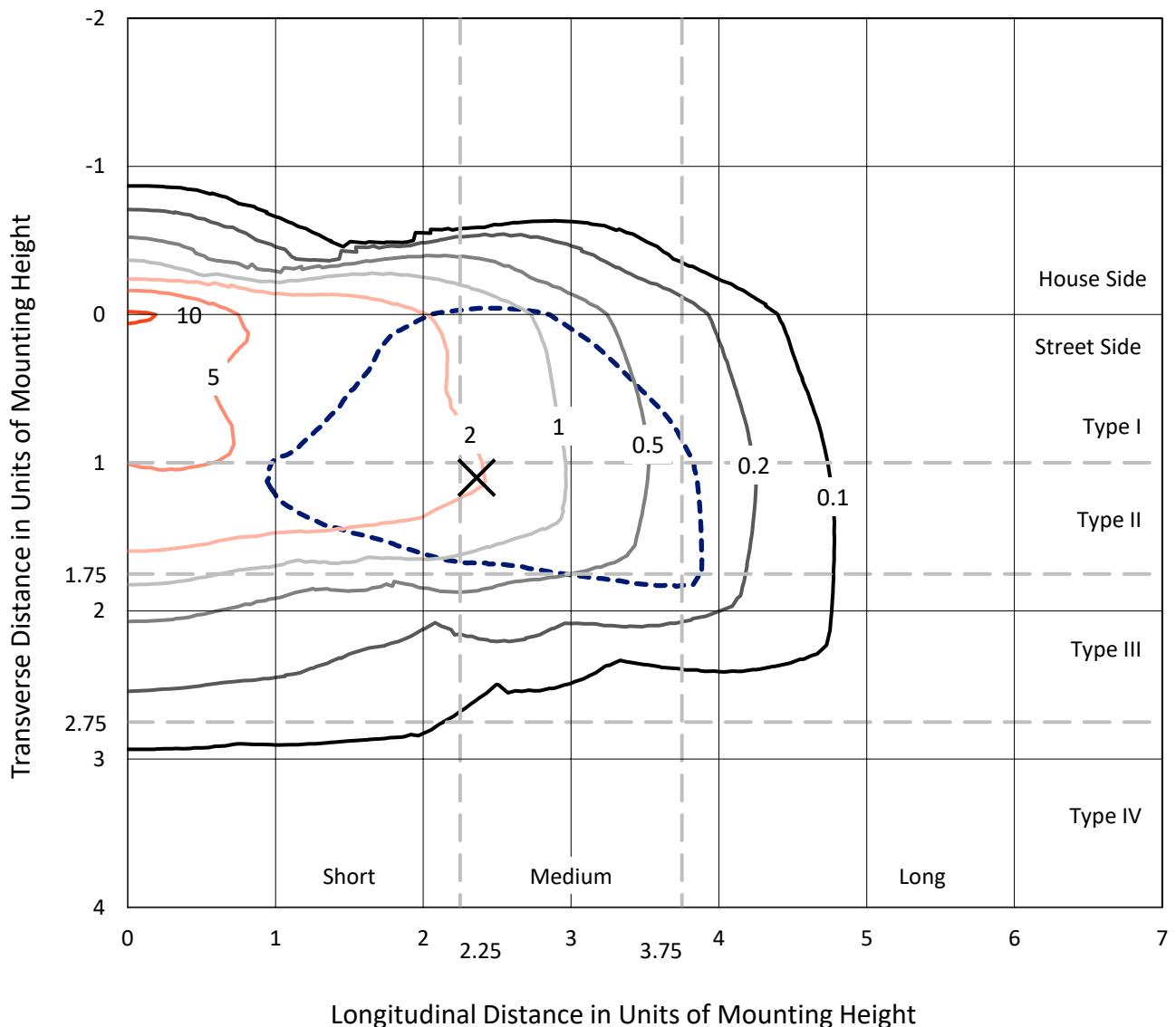
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

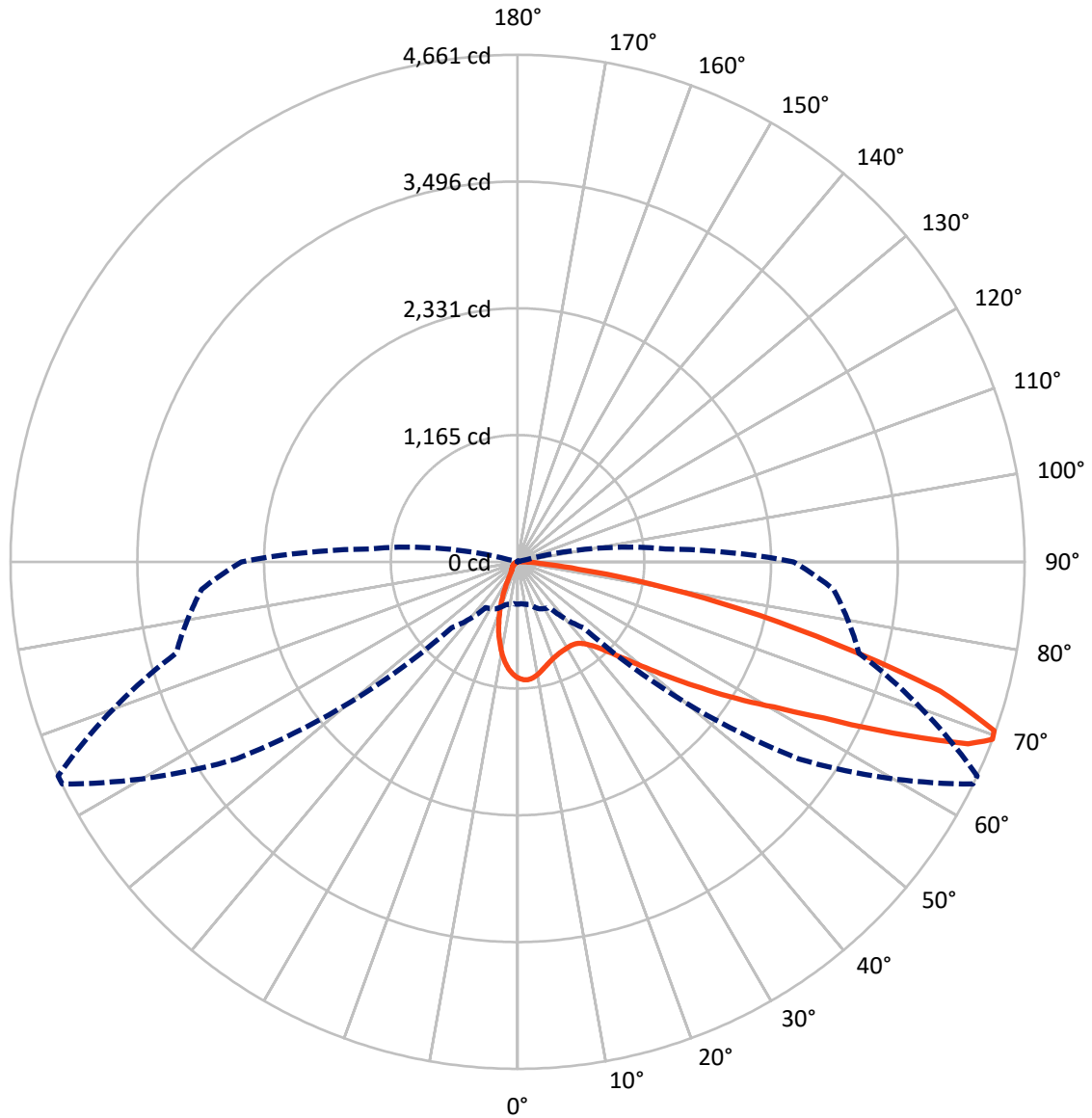
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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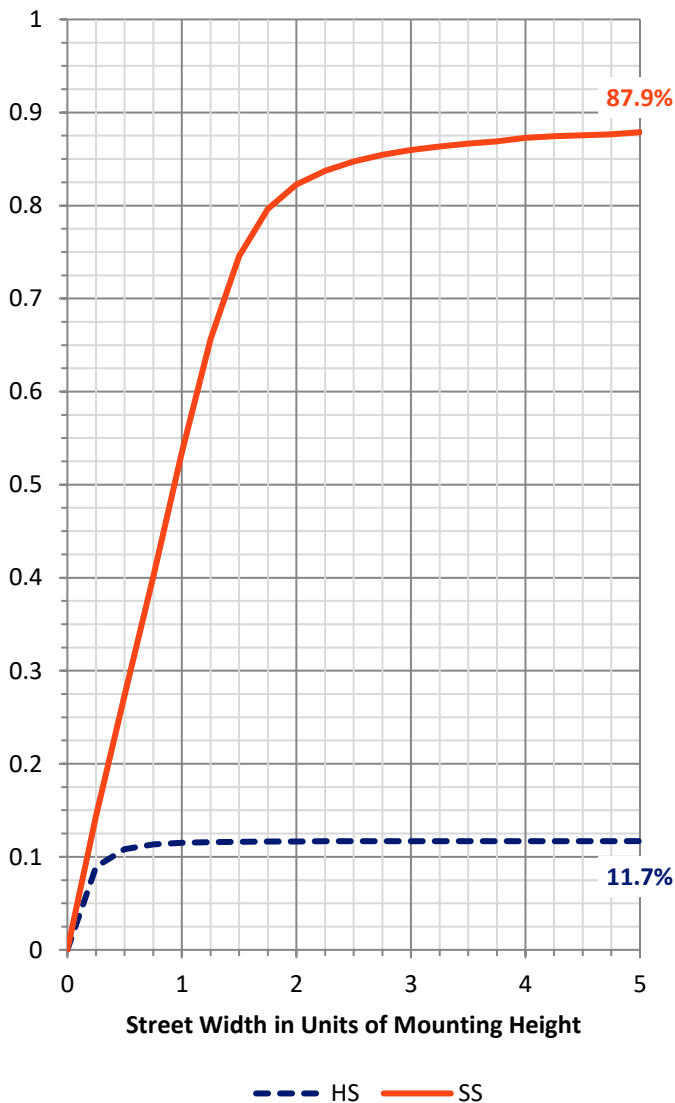
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.5	0.0	498.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3730.5	0.0	3730.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	4229.0	0.0	4229.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	2.1
10°-20°	195.6	4.6
20°-30°	270.9	6.4
30°-40°	377.8	8.9
40°-50°	587.2	13.9
50°-60°	942.7	22.3
60°-70°	1066.3	25.2
70°-80°	626.3	14.8
80°-90°	72.8	1.7
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°	4229.0	100.0
0°-180°	4229.0	100.0

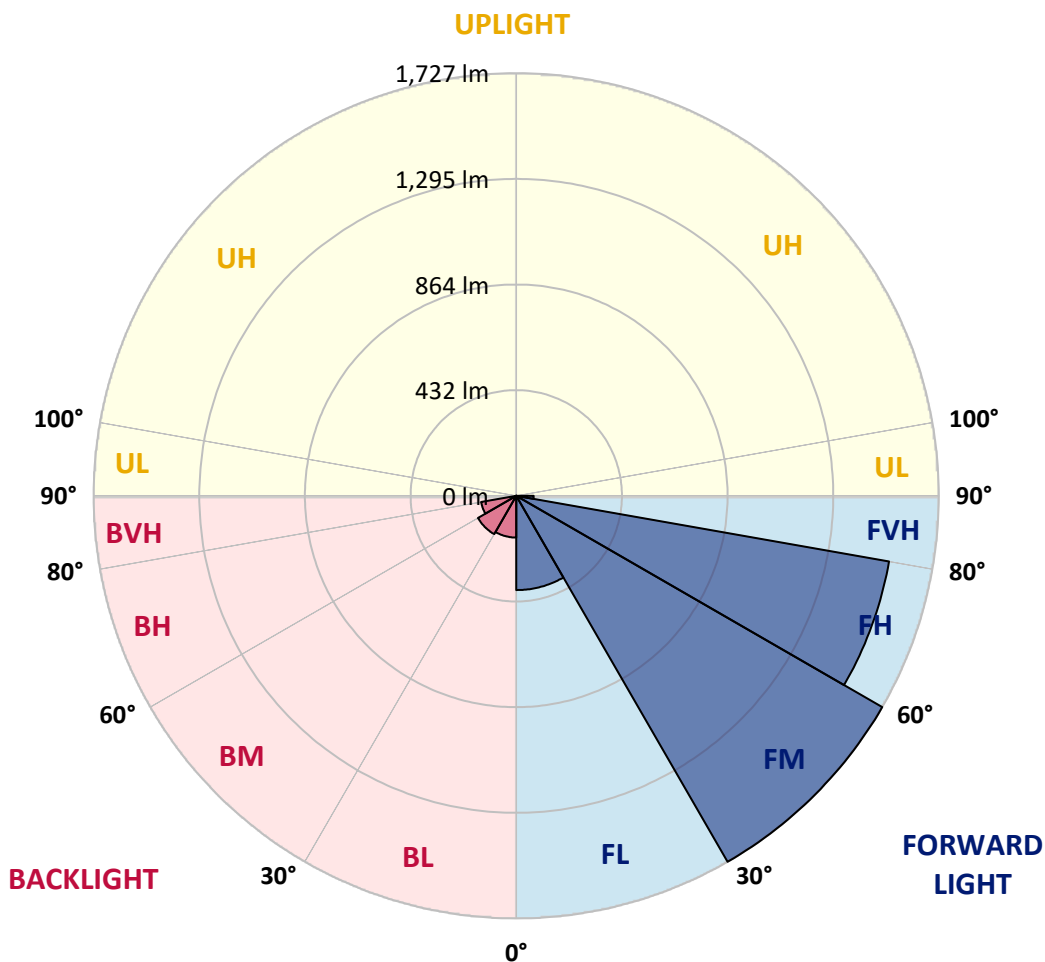


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.4	9.1			
FM (30°-60°)	1727.0	40.8			
FH (60°-80°)	1546.9	36.6			G1/1800
FVH (80°-90°)	71.2	1.7			G1/100
BL (0°-30°)	170.6	4.0	B1/500		
BM (30°-60°)	180.6	4.3	B0/220		
BH (60°-80°)	145.7	3.4	B1/500		G1/500
BVH (80°-90°)	1.6	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7
2.5°	1078.2	1075.5	1077.6	1082.3	1084.6	1084.6	1086.4	1084.2	1085.0	1079.8	1072.3
5°	1010.7	1006.6	1012.5	1025.5	1041.7	1055.4	1075.8	1086.6	1087.6	1087.8	1079.1
7.5°	938.0	934.3	943.1	958.4	979.2	1004.8	1040.4	1071.5	1073.3	1090.1	1083.7
10°	879.0	876.3	886.5	903.0	927.3	955.9	999.6	1042.9	1048.1	1085.3	1083.0
12.5°	832.1	830.0	839.6	858.6	883.5	915.1	960.8	1011.1	1018.0	1074.4	1079.4
15°	797.9	797.6	805.6	823.9	851.4	881.0	927.7	981.5	989.6	1062.6	1078.9
17.5°	780.0	780.6	786.5	802.0	825.7	855.0	899.7	956.7	965.4	1052.0	1081.6
20°	778.2	778.8	782.0	790.8	809.9	835.9	877.0	935.7	944.8	1044.2	1085.9
22.5°	794.0	793.6	794.5	793.6	804.4	824.1	862.0	919.6	930.2	1039.0	1089.3
25°	824.2	823.7	823.3	816.7	809.6	820.1	855.7	910.5	920.5	1035.2	1091.2
27.5°	866.3	865.9	865.4	854.5	833.0	826.4	856.4	907.1	915.5	1032.2	1090.9
30°	921.6	924.1	923.4	908.2	874.7	845.5	864.0	905.3	912.6	1026.3	1087.1
32.5°	986.5	991.5	995.5	979.2	937.3	883.5	881.3	907.3	912.6	1021.8	1080.3
35°	1054.0	1060.4	1074.9	1069.2	1014.1	940.5	911.2	919.1	923.5	1024.3	1077.1
37.5°	1120.4	1128.1	1159.6	1176.2	1114.7	1016.1	957.7	948.2	950.6	1039.5	1080.7
40°	1197.5	1209.1	1256.9	1283.8	1234.7	1117.2	1027.3	998.3	999.2	1073.0	1097.3
42.5°	1298.8	1310.8	1362.5	1404.6	1370.0	1244.9	1121.8	1074.9	1074.0	1135.6	1136.5
45°	1422.3	1434.8	1488.3	1535.0	1519.4	1396.3	1242.8	1186.8	1185.7	1234.4	1210.8
47.5°	1562.2	1574.6	1622.3	1670.5	1687.3	1573.1	1396.9	1339.4	1336.9	1371.6	1325.5
50°	1682.3	1690.3	1734.4	1799.1	1875.0	1790.4	1588.5	1533.2	1530.5	1554.0	1493.9
52.5°	1726.0	1730.6	1775.3	1866.1	2055.4	2084.6	1840.3	1769.1	1767.1	1777.3	1718.1
55°	1637.6	1646.0	1700.9	1835.5	2153.1	2417.0	2158.1	2061.1	2046.3	2024.3	1952.5
57.5°	1396.7	1410.1	1469.2	1648.1	2107.5	2680.8	2625.2	2391.5	2369.6	2235.1	2143.1
60°	1046.5	1062.9	1112.0	1305.1	1863.9	2774.8	3135.5	2759.6	2710.3	2402.9	2318.3
62.5°	718.1	726.3	759.6	885.4	1372.7	2620.9	3562.5	3252.6	3162.7	2585.4	2507.8
65°	548.5	551.3	564.9	608.2	817.4	2128.9	3732.3	3903.0	3794.4	2803.8	2704.4
67.5°	442.0	439.7	458.5	520.4	547.4	1298.8	3534.2	4518.4	4467.6	3095.6	2902.4
69°	389.7	386.5	405.7	477.6	514.1	858.6	3159.5	4658.2	4661.4	3249.7	2916.0
70°	350.7	352.9	371.9	452.2	502.8	673.9	2801.6	4622.6	4648.0	3307.3	2834.4
72.5°	234.2	240.0	278.1	375.4	483.5	510.0	1691.6	3966.7	4064.4	3177.6	2431.7
75°	132.1	136.4	181.6	283.1	455.6	485.7	893.5	2922.4	3016.9	2657.2	1875.2
77.5°	64.8	67.1	102.7	182.7	381.0	462.8	506.8	1985.1	2093.0	1734.4	1060.6
80°	27.4	28.6	51.4	112.7	272.4	441.6	376.3	1221.7	1235.1	679.5	282.6
82.5°	10.6	10.9	21.7	70.3	173.0	344.3	314.8	579.3	565.3	127.9	64.4
85°	1.3	1.4	7.9	42.2	96.3	177.2	255.7	249.6	231.0	25.4	33.1
87.5°	0.0	0.0	0.5	12.9	28.6	83.0	133.0	103.6	93.4	8.2	17.2
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°	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7	1068.7
2.5°	1066.0	1064.2	1054.5	1040.6	1027.3	1010.9	995.1	985.6	978.1	973.1	979.0
5°	1068.9	1061.0	1031.6	994.1	957.2	915.7	877.0	844.3	831.4	817.1	823.5
7.5°	1068.0	1053.1	1000.3	933.4	865.7	795.8	729.6	678.6	652.1	626.1	632.8
10°	1063.5	1038.4	958.4	859.3	758.0	657.5	563.5	492.1	452.2	416.1	421.2
12.5°	1053.6	1018.7	909.1	774.5	639.0	506.4	396.4	304.9	255.9	234.2	236.9
15°	1047.7	999.6	856.8	688.6	512.0	352.7	242.3	180.2	157.8	150.7	151.6
17.5°	1044.9	981.2	802.8	590.3	382.1	224.6	156.6	138.1	133.3	132.1	132.4
20°	1042.0	962.6	747.1	493.2	263.2	151.0	128.7	123.3	121.5	119.9	120.3
22.5°	1037.2	944.7	687.3	394.8	177.5	122.6	116.0	110.8	107.0	105.0	105.4
25°	1031.3	925.9	626.3	294.0	129.6	109.3	103.1	95.7	91.3	87.7	87.9
27.5°	1021.8	902.8	563.3	214.0	108.8	97.9	89.5	81.4	73.9	69.8	69.8
30°	1008.5	876.7	493.4	153.2	97.5	86.6	76.4	66.4	58.3	54.6	54.2
32.5°	993.9	849.5	422.7	116.1	88.6	76.1	64.4	53.9	46.7	43.7	43.5
35°	981.3	820.1	352.2	97.3	79.6	65.9	53.1	44.2	38.5	36.0	35.8
37.5°	973.3	790.8	283.5	87.0	71.6	56.4	44.6	36.5	32.4	30.4	30.2
40°	972.0	768.9	220.6	79.1	64.1	48.0	37.2	31.0	27.2	25.1	24.9
42.5°	988.3	756.4	169.3	72.5	56.4	40.6	31.7	26.5	22.5	20.4	20.2
45°	1031.1	760.3	130.3	66.6	48.7	34.4	26.8	22.0	18.4	16.8	16.5
47.5°	1109.1	787.5	103.6	60.7	41.3	29.2	22.9	18.3	15.2	13.6	13.4
50°	1248.0	851.4	86.6	54.2	34.5	24.9	19.0	14.9	12.3	10.9	10.7
52.5°	1432.3	965.2	77.3	48.0	28.6	21.1	15.6	11.8	9.7	8.6	8.4
55°	1635.6	1103.0	71.2	41.2	23.4	17.5	12.3	9.3	7.5	6.6	6.3
57.5°	1834.0	1222.4	65.5	34.5	19.5	14.3	9.8	7.3	5.9	5.0	4.8
60°	2016.4	1332.1	58.9	27.7	15.9	11.3	7.7	5.7	4.7	3.8	3.8
62.5°	2211.6	1416.9	49.7	21.7	13.1	8.6	6.3	5.2	3.8	3.2	3.0
65°	2418.5	1479.9	39.0	16.8	10.2	6.4	5.2	5.4	3.0	2.3	2.1
67.5°	2571.3	1467.4	28.8	13.2	7.9	5.0	5.0	5.7	2.7	1.8	1.6
69°	2537.7	1365.5	24.2	11.5	6.8	4.3	4.7	5.7	2.5	1.6	1.4
70°	2440.1	1252.8	21.3	10.2	6.1	3.9	4.5	5.5	2.3	1.6	1.4
72.5°	2032.1	943.6	16.6	7.7	4.8	3.2	3.8	4.8	2.3	1.6	1.3
75°	1528.6	603.9	12.7	5.5	3.6	2.5	2.9	3.6	2.3	1.4	1.3
77.5°	831.7	217.8	9.1	3.8	2.5	2.0	2.0	2.7	2.1	1.1	0.7
80°	213.8	54.8	5.7	2.5	2.0	1.4	1.3	1.8	1.3	0.2	0.0
82.5°	52.8	12.3	3.0	1.8	1.4	0.5	0.5	0.9	0.5	0.0	0.0
85°	29.0	6.1	2.0	1.3	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	14.9	1.8	0.5	0.4	0.2	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)