

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: P385432

Luminaire Tested: GAW-SA1A-727-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385432
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-SA1A-727-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 3447 lumens
Efficiency: N/A
Efficacy: 101.4 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

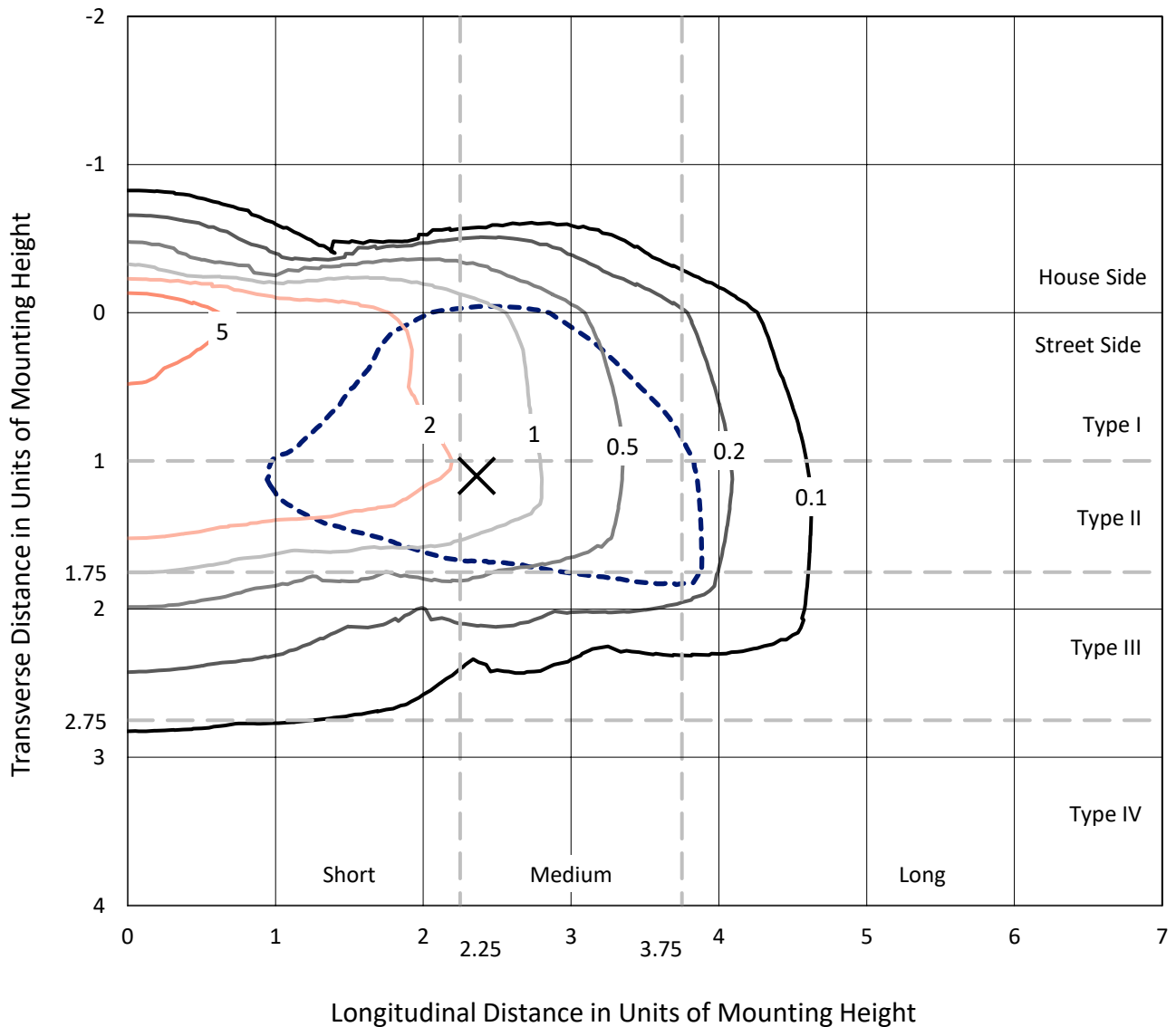
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

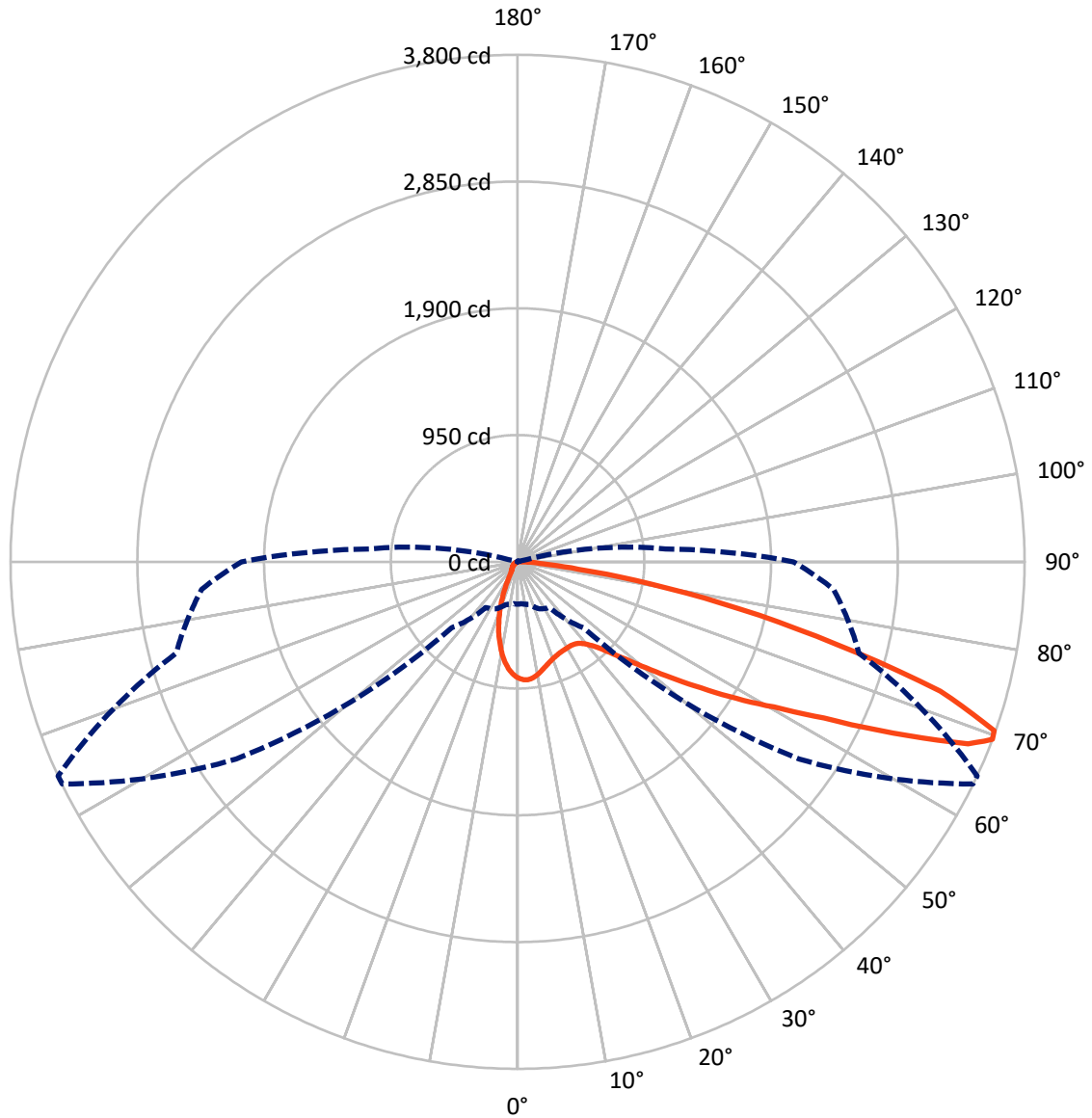
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 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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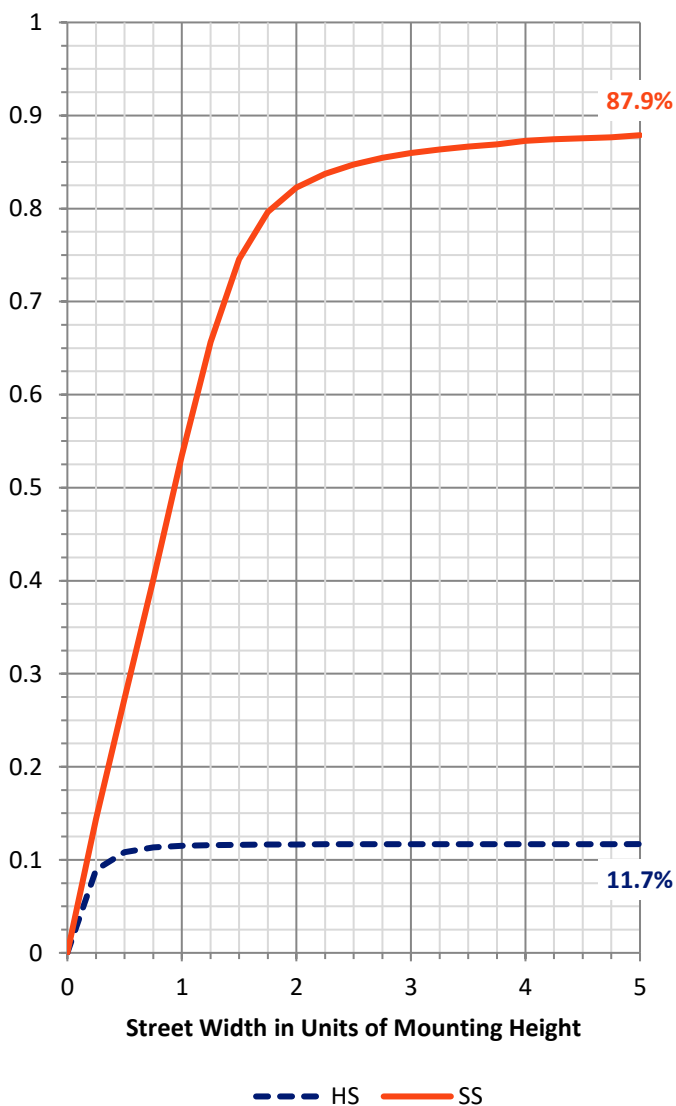
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	406.3	0.0	406.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3040.7	0.0	3040.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	3447.0	0.0	3447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	2.1
10°-20°	159.4	4.6
20°-30°	220.8	6.4
30°-40°	307.9	8.9
40°-50°	478.6	13.9
50°-60°	768.4	22.3
60°-70°	869.1	25.2
70°-80°	510.5	14.8
80°-90°	59.4	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°	3447.0	100.0
0°-180°	3447.0	100.0

Coefficient of Utilization



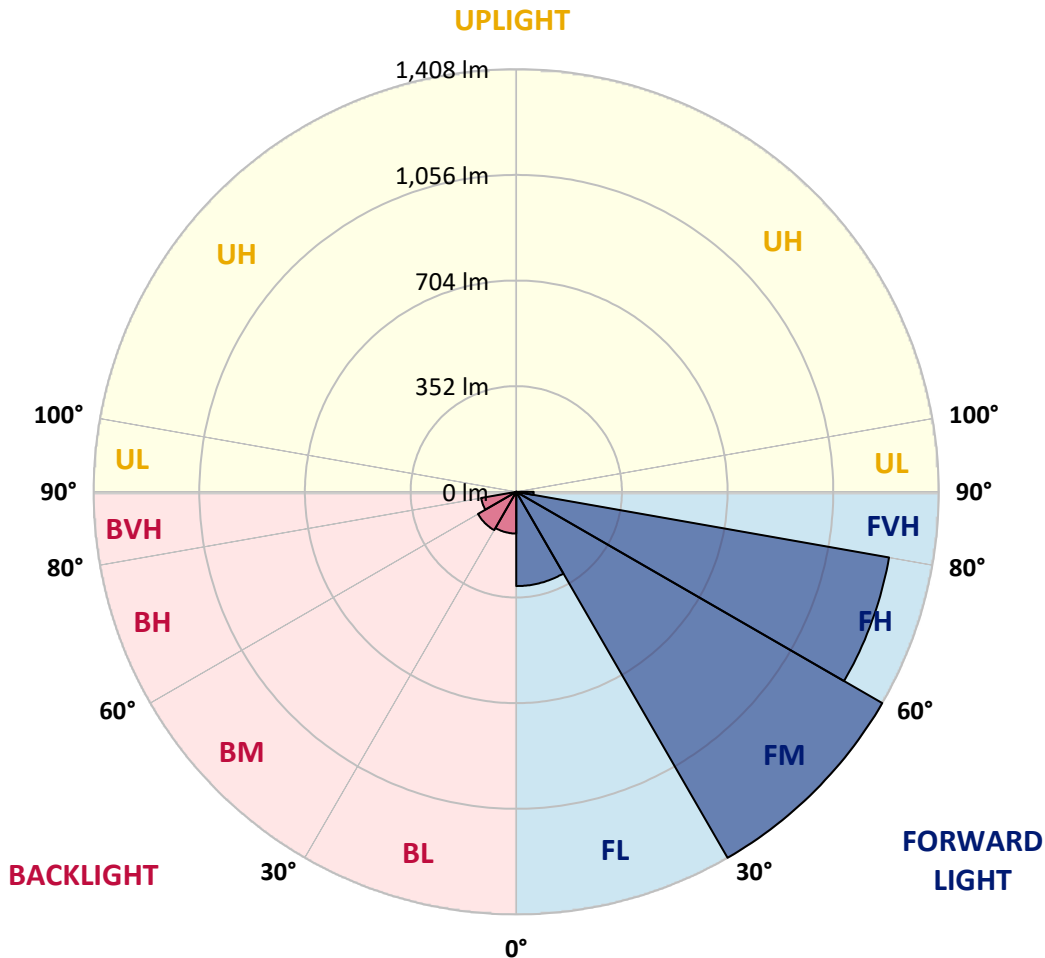
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.1	9.1			
FM (30°-60°)	1407.7	40.8			
FH (60°-80°)	1260.9	36.6			G1/1800
FVH (80°-90°)	58.0	1.7			G1/100
BL (0°-30°)	139.0	4.0	B1/500		
BM (30°-60°)	147.2	4.3	B0/220		
BH (60°-80°)	118.7	3.4	B1/500		G1/500
BVH (80°-90°)	1.3	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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	878.8	876.6	878.4	882.1	884.0	884.0	885.5	883.8	884.3	880.1	874.0
5°	823.8	820.5	825.3	835.9	849.0	860.3	876.9	885.6	886.5	886.7	879.5
7.5°	764.6	761.5	768.7	781.2	798.1	819.0	848.0	873.4	874.9	888.6	883.3
10°	716.5	714.3	722.6	736.0	755.8	779.2	814.8	850.1	854.3	884.6	882.7
12.5°	678.2	676.5	684.4	699.8	720.1	745.9	783.1	824.1	829.8	875.7	879.8
15°	650.4	650.1	656.7	671.5	694.0	718.1	756.1	800.0	806.6	866.1	879.4
17.5°	635.8	636.2	641.0	653.7	673.0	696.9	733.4	779.8	786.9	857.5	881.6
20°	634.3	634.8	637.4	644.5	660.2	681.3	714.8	762.7	770.1	851.1	885.1
22.5°	647.2	646.9	647.6	646.9	655.6	671.7	702.6	749.6	758.2	846.9	887.8
25°	671.8	671.4	671.1	665.7	659.9	668.5	697.5	742.1	750.3	843.8	889.4
27.5°	706.1	705.8	705.4	696.5	679.0	673.6	698.1	739.4	746.2	841.3	889.1
30°	751.2	753.2	752.6	740.2	713.0	689.2	704.2	737.9	743.9	836.5	886.1
32.5°	804.1	808.2	811.4	798.1	764.0	720.1	718.3	739.5	743.9	832.8	880.5
35°	859.1	864.4	876.2	871.5	826.6	766.6	742.7	749.1	752.8	834.9	877.9
37.5°	913.2	919.5	945.2	958.7	908.5	828.2	780.6	772.9	774.8	847.3	880.8
40°	976.1	985.6	1024.5	1046.4	1006.4	910.6	837.4	813.7	814.5	874.6	894.4
42.5°	1058.6	1068.4	1110.6	1144.8	1116.7	1014.7	914.4	876.2	875.4	925.6	926.3
45°	1159.3	1169.5	1213.1	1251.2	1238.5	1138.1	1013.0	967.3	966.5	1006.1	986.9
47.5°	1273.3	1283.4	1322.3	1361.6	1375.3	1282.2	1138.6	1091.7	1089.7	1118.0	1080.4
50°	1371.2	1377.8	1413.7	1466.5	1528.3	1459.3	1294.8	1249.7	1247.5	1266.6	1217.6
52.5°	1406.8	1410.6	1447.1	1521.0	1675.3	1699.1	1500.0	1442.0	1440.3	1448.7	1400.4
55°	1334.7	1341.6	1386.4	1496.1	1755.0	1970.1	1759.0	1680.0	1667.9	1649.9	1591.5
57.5°	1138.4	1149.4	1197.5	1343.4	1717.8	2185.1	2139.7	1949.2	1931.4	1821.8	1746.8
60°	853.0	866.4	906.4	1063.7	1519.3	2261.7	2555.7	2249.3	2209.2	1958.6	1889.6
62.5°	585.3	592.0	619.2	721.7	1118.9	2136.2	2903.7	2651.1	2577.9	2107.4	2044.1
65°	447.1	449.4	460.5	495.8	666.3	1735.3	3042.2	3181.3	3092.8	2285.3	2204.3
67.5°	360.3	358.4	373.7	424.2	446.2	1058.6	2880.7	3682.9	3641.5	2523.2	2365.7
69°	317.7	315.1	330.7	389.3	419.0	699.8	2575.3	3796.8	3799.5	2648.8	2376.8
70°	285.9	287.6	303.1	368.6	409.9	549.3	2283.6	3767.8	3788.5	2695.7	2310.2
72.5°	190.9	195.6	226.7	306.0	394.1	415.7	1378.8	3233.2	3312.9	2590.0	1982.1
75°	107.6	111.1	148.0	230.7	371.4	395.9	728.3	2382.0	2459.0	2165.8	1528.4
77.5°	52.8	54.7	83.7	148.9	310.5	377.2	413.1	1618.0	1706.0	1413.7	864.5
80°	22.3	23.3	41.9	91.9	222.0	360.0	306.7	995.8	1006.7	553.8	230.3
82.5°	8.6	8.9	17.6	57.3	141.0	280.6	256.6	472.1	460.8	104.3	52.5
85°	1.0	1.2	6.4	34.4	78.5	144.4	208.4	203.5	188.3	20.7	27.0
87.5°	0.0	0.0	0.4	10.5	23.3	67.7	108.4	84.5	76.1	6.7	14.0
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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	868.9	867.4	859.5	848.2	837.4	824.0	811.1	803.4	797.3	793.2	798.0
5°	871.2	864.8	840.9	810.2	780.2	746.4	714.8	688.2	677.7	666.0	671.2
7.5°	870.5	858.4	815.3	760.8	705.7	648.6	594.7	553.1	531.5	510.4	515.8
10°	866.8	846.4	781.2	700.4	617.9	535.9	459.3	401.1	368.6	339.1	343.3
12.5°	858.8	830.4	741.0	631.3	520.9	412.8	323.1	248.5	208.6	190.9	193.1
15°	854.0	814.8	698.4	561.3	417.3	287.5	197.5	146.9	128.6	122.8	123.5
17.5°	851.7	799.7	654.3	481.2	311.4	183.1	127.6	112.6	108.7	107.6	107.9
20°	849.3	784.6	609.0	402.0	214.6	123.1	104.9	100.5	99.0	97.7	98.0
22.5°	845.4	770.0	560.2	321.8	144.7	99.9	94.5	90.3	87.2	85.6	85.9
25°	840.6	754.7	510.5	239.6	105.6	89.1	84.0	78.0	74.4	71.5	71.6
27.5°	832.8	735.9	459.2	174.4	88.7	79.8	72.9	66.4	60.2	56.9	56.9
30°	822.1	714.6	402.1	124.9	79.5	70.6	62.3	54.1	47.5	44.5	44.2
32.5°	810.1	692.4	344.5	94.7	72.2	62.0	52.5	43.9	38.1	35.6	35.4
35°	799.9	668.5	287.0	79.3	64.9	53.7	43.3	36.0	31.4	29.3	29.2
37.5°	793.3	644.5	231.0	70.9	58.3	45.9	36.3	29.8	26.4	24.8	24.6
40°	792.3	626.8	179.8	64.5	52.2	39.1	30.3	25.2	22.2	20.4	20.3
42.5°	805.6	616.5	138.0	59.1	45.9	33.1	25.8	21.6	18.4	16.6	16.5
45°	840.4	619.7	106.2	54.3	39.7	28.0	21.9	17.9	15.0	13.7	13.4
47.5°	904.0	641.9	84.5	49.4	33.7	23.8	18.7	14.9	12.4	11.1	10.9
50°	1017.2	694.0	70.6	44.2	28.2	20.3	15.5	12.1	10.1	8.9	8.8
52.5°	1167.4	786.8	63.0	39.1	23.3	17.2	12.7	9.6	7.9	7.0	6.9
55°	1333.1	899.1	58.1	33.5	19.1	14.3	10.1	7.6	6.1	5.4	5.1
57.5°	1494.9	996.4	53.4	28.2	15.9	11.7	8.0	6.0	4.8	4.1	3.9
60°	1643.5	1085.8	48.0	22.6	13.0	9.2	6.3	4.7	3.8	3.1	3.1
62.5°	1802.7	1154.9	40.5	17.6	10.6	7.0	5.1	4.2	3.1	2.6	2.5
65°	1971.3	1206.2	31.8	13.7	8.3	5.3	4.2	4.4	2.5	1.9	1.8
67.5°	2095.8	1196.0	23.5	10.8	6.4	4.1	4.1	4.7	2.2	1.5	1.3
69°	2068.4	1113.0	19.7	9.3	5.5	3.5	3.8	4.7	2.0	1.3	1.2
70°	1988.9	1021.2	17.4	8.3	5.0	3.2	3.6	4.5	1.9	1.3	1.2
72.5°	1656.4	769.1	13.6	6.3	3.9	2.6	3.1	3.9	1.9	1.3	1.0
75°	1245.9	492.3	10.4	4.5	2.9	2.0	2.3	2.9	1.9	1.2	1.0
77.5°	677.9	177.5	7.4	3.1	2.0	1.6	1.6	2.2	1.8	0.9	0.6
80°	174.3	44.6	4.7	2.0	1.6	1.2	1.0	1.5	1.0	0.1	0.0
82.5°	43.0	10.1	2.5	1.5	1.2	0.4	0.4	0.7	0.4	0.0	0.0
85°	23.6	5.0	1.6	1.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0
87.5°	12.1	1.5	0.4	0.3	0.1	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)