

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: P386486

Luminaire Tested: GAW-SA2A-827-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-827-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5077 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

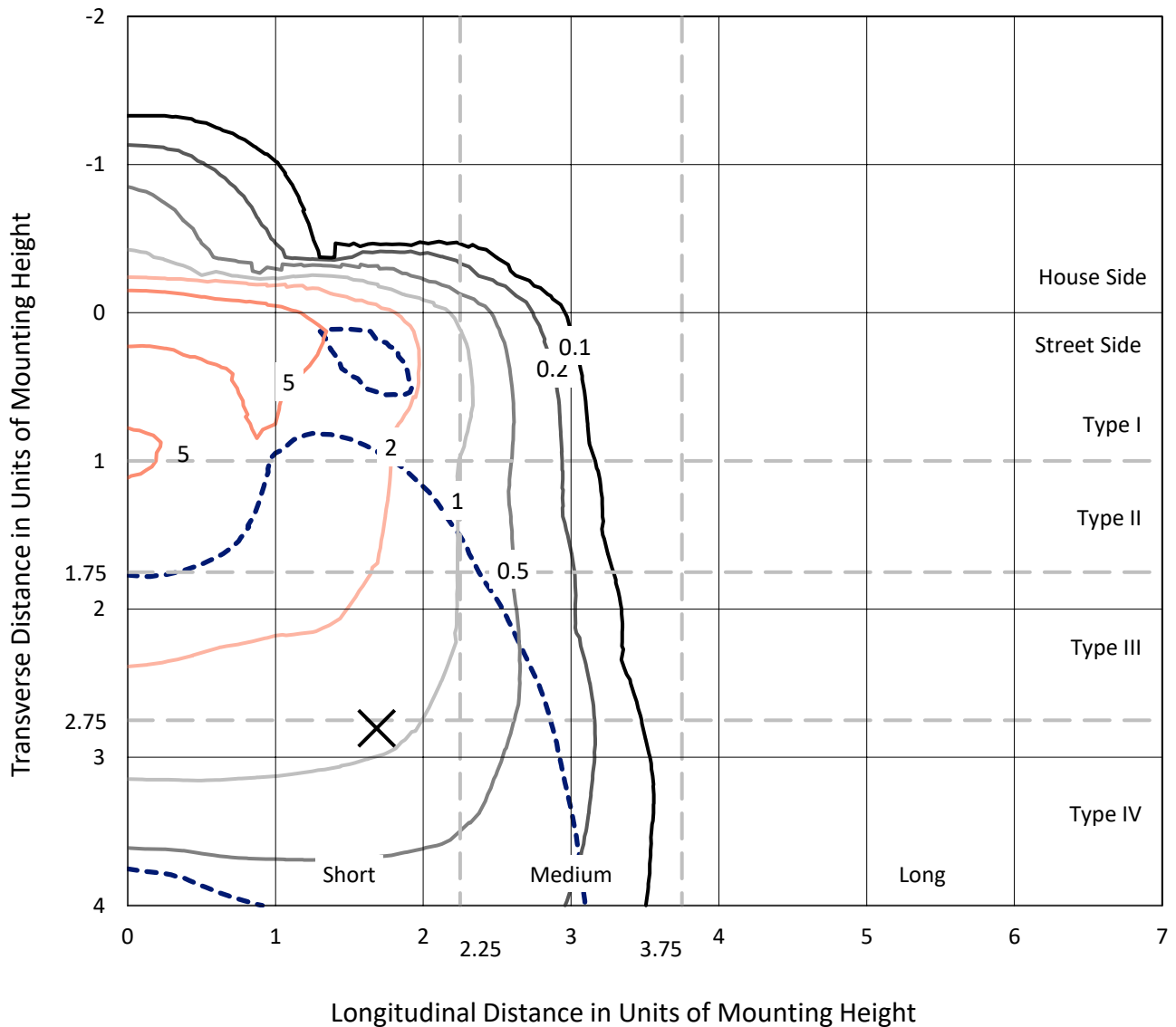
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

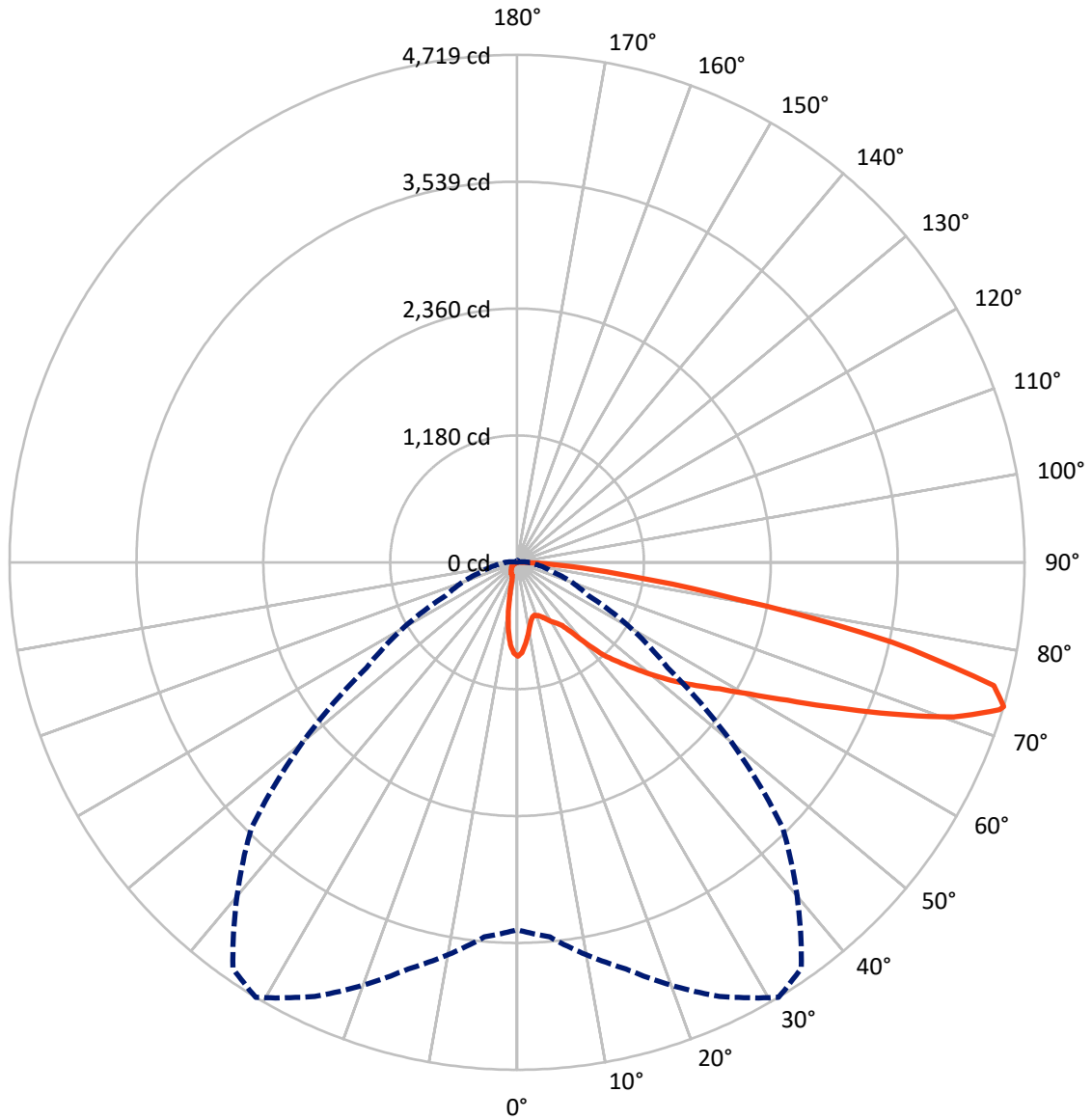
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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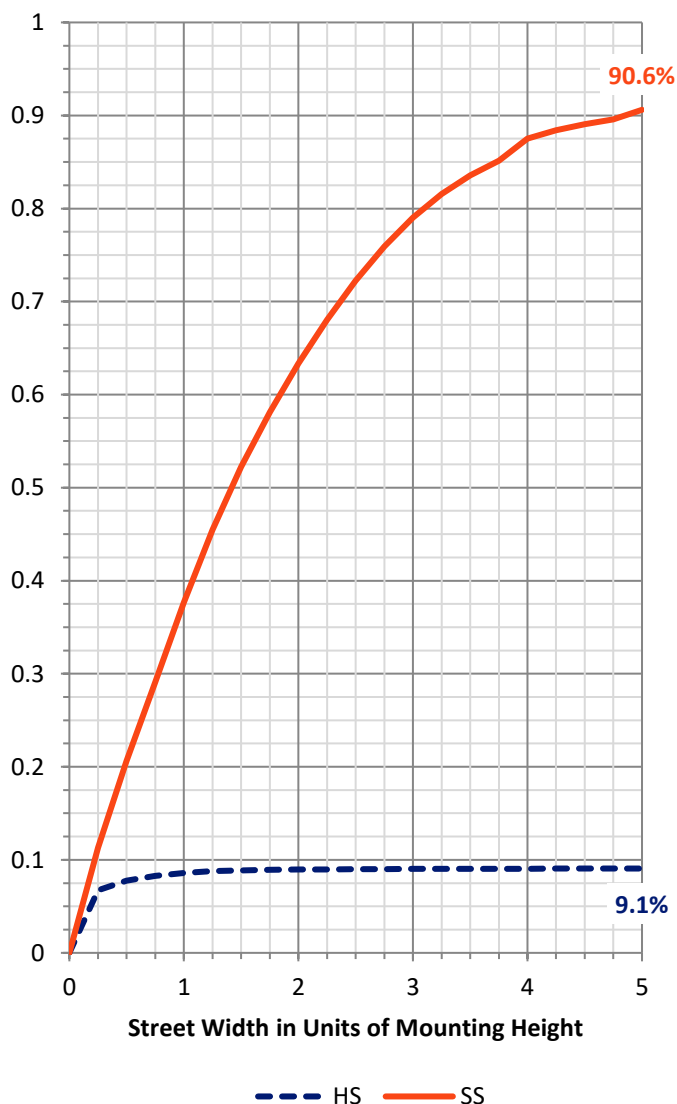
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.8	0.0	462.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4614.2	0.0	4614.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	5077.0	0.0	5077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.4
10°-20°	157.3	3.1
20°-30°	235.6	4.6
30°-40°	374.9	7.4
40°-50°	669.4	13.2
50°-60°	1038.7	20.5
60°-70°	1380.9	27.2
70°-80°	1038.7	20.5
80°-90°	109.1	2.1
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°	5077.0	100.0
0°-180°	5077.0	100.0

Coefficient of Utilization



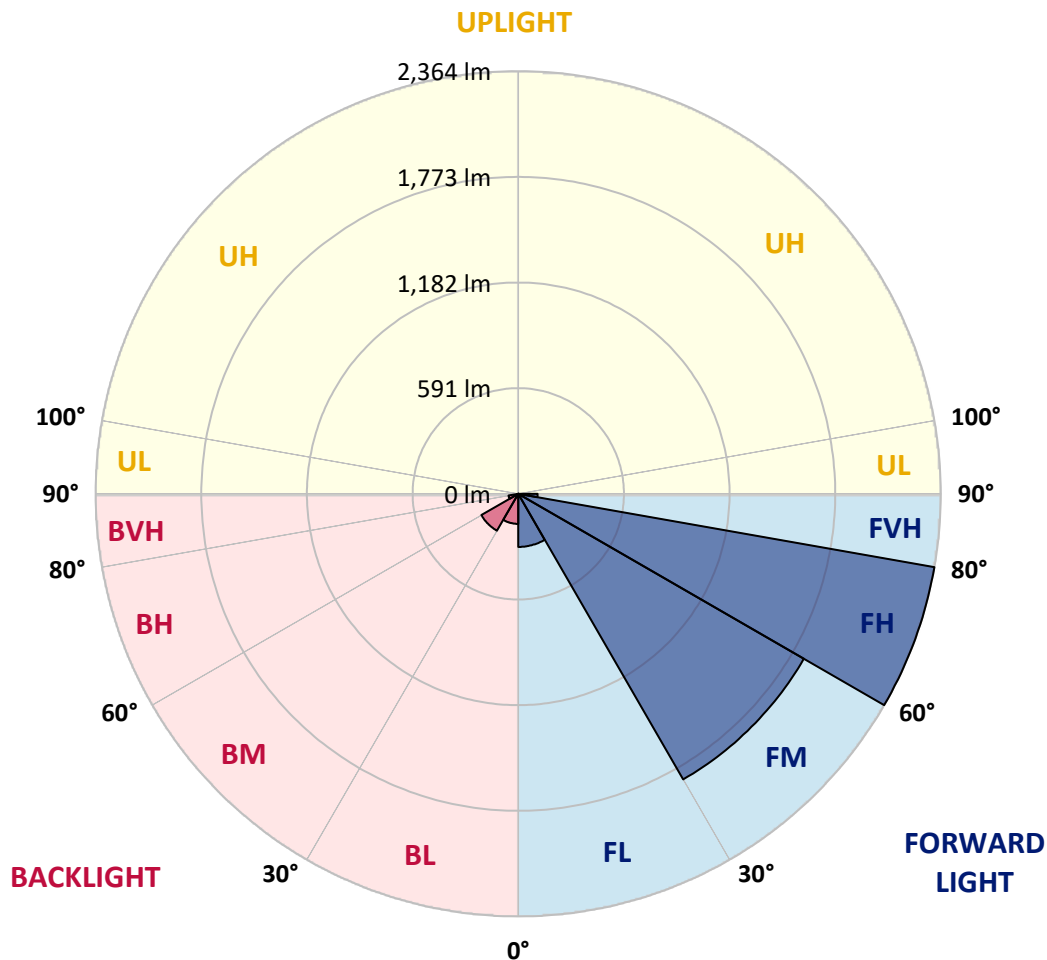
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.0	5.9			
FM (30°-60°)	1844.8	36.3			
FH (60°-80°)	2364.2	46.6			G2/5000
FVH (80°-90°)	108.2	2.1			G2/225
BL (0°-30°)	168.3	3.3	B1/500		
BM (30°-60°)	238.2	4.7	B1/1000		
BH (60°-80°)	55.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	827.8	831.3	835.0	835.7	842.0	842.2	851.1	857.9	864.6	871.0	873.3
5°	742.8	748.5	755.3	762.0	775.1	780.3	802.2	824.6	845.9	866.3	876.2
7.5°	652.1	658.6	668.0	684.7	699.4	709.5	744.1	783.8	823.6	861.1	882.7
10°	569.4	575.4	585.3	603.0	625.6	639.5	685.9	741.1	799.5	856.4	892.4
12.5°	516.8	520.0	525.4	544.3	564.7	580.4	635.0	703.3	779.6	856.1	908.0
15°	507.1	508.1	503.6	512.0	527.9	543.1	598.5	672.8	764.4	860.1	928.4
17.5°	522.5	522.0	507.1	506.1	518.7	531.2	580.6	651.7	753.8	869.3	954.7
20°	545.8	544.1	518.2	513.5	526.9	538.6	579.4	643.7	749.8	884.7	986.8
22.5°	576.9	573.9	533.4	528.4	542.8	555.0	594.8	651.4	753.3	905.3	1024.1
25°	615.4	610.9	559.5	554.0	568.7	580.8	622.3	673.5	763.7	930.4	1071.3
27.5°	658.9	652.4	601.2	587.1	603.7	616.4	659.1	707.3	780.1	957.0	1129.2
30°	699.9	691.4	645.2	621.8	642.2	656.4	698.9	747.6	806.4	998.0	1208.4
32.5°	741.1	731.7	684.4	656.6	675.0	690.4	739.8	803.0	855.9	1060.6	1313.7
35°	836.0	826.1	768.2	722.2	722.0	730.7	797.2	878.7	921.2	1147.8	1439.5
37.5°	995.7	990.0	934.9	847.7	824.3	814.6	875.5	969.2	1015.1	1267.8	1581.3
40°	1170.6	1165.7	1103.8	1024.8	989.3	965.4	987.8	1095.1	1147.8	1414.4	1726.1
42.5°	1368.1	1344.5	1234.2	1210.6	1178.8	1160.7	1140.6	1250.4	1310.8	1573.9	1869.7
45°	1547.5	1507.8	1364.7	1328.9	1321.7	1326.2	1337.3	1459.1	1494.1	1763.4	2012.8
47.5°	1654.3	1623.0	1513.2	1479.0	1477.0	1506.5	1591.0	1694.8	1676.7	1928.6	2138.8
50°	1756.0	1727.6	1636.5	1644.9	1654.1	1694.3	1878.9	1937.3	1843.4	2078.4	2254.3
52.5°	1838.2	1795.0	1747.3	1794.7	1839.9	1904.8	2176.1	2155.0	1961.7	2197.7	2353.2
55°	1885.6	1866.0	1889.1	1936.8	2021.8	2127.1	2456.6	2336.1	2048.1	2306.5	2419.0
57.5°	2059.6	2021.0	2067.0	2108.2	2219.0	2366.4	2696.8	2471.0	2110.5	2373.8	2434.2
60°	2270.0	2238.9	2266.0	2334.6	2484.1	2657.3	2921.4	2581.0	2143.0	2417.1	2394.9
62.5°	2604.9	2563.9	2547.0	2623.8	2822.0	3011.1	3091.8	2657.3	2135.8	2397.9	2260.3
65°	3053.6	3011.1	2935.5	3005.1	3257.3	3390.7	3282.4	2673.4	2086.1	2243.1	1919.9
67.5°	3513.2	3482.4	3417.8	3535.0	3762.6	3805.6	3483.8	2634.2	1926.1	1818.8	1356.5
70°	3816.8	3803.6	3845.6	4104.9	4307.9	4295.5	3668.7	2423.3	1501.3	1118.5	671.0
72.5°	3597.9	3661.0	3971.0	4441.3	4689.3	4587.9	3573.8	1860.8	858.1	430.3	194.0
73°	3416.5	3497.3	3914.6	4454.0	4719.3	4608.3	3494.0	1708.0	731.4	339.6	147.1
75°	2376.8	2475.9	3240.9	4148.2	4578.7	4390.6	2912.4	1045.4	338.9	150.6	59.4
77.5°	1154.0	1227.3	1784.5	2997.2	3560.9	3430.4	1813.1	389.6	153.0	94.2	27.3
80°	430.8	479.0	774.6	1525.4	2057.8	2111.7	797.5	147.3	101.9	75.8	13.9
82.5°	112.8	125.7	285.7	680.2	1054.6	1103.8	251.4	74.3	74.5	62.4	8.4
85°	36.0	41.2	89.2	305.3	496.9	436.3	65.6	36.0	54.2	46.5	4.7
87.5°	4.5	5.7	28.3	71.8	109.6	60.9	10.2	10.7	23.1	25.8	2.7
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°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	875.5	874.3	874.5	868.0	863.8	855.4	846.7	842.7	838.5	836.7	838.5
5°	880.0	877.7	871.3	851.4	830.3	803.0	777.4	758.0	733.6	726.9	733.9
7.5°	886.9	882.5	863.6	823.1	776.1	723.9	665.3	622.6	587.6	564.9	573.1
10°	897.1	888.7	850.7	781.8	697.9	605.4	522.2	457.4	411.4	392.5	391.8
12.5°	914.3	898.4	834.8	728.2	602.2	479.0	369.9	299.6	262.4	238.3	237.8
15°	933.1	909.8	814.6	663.8	490.9	343.1	238.3	184.8	160.7	153.0	152.0
17.5°	956.2	922.9	788.5	584.6	374.4	227.3	155.5	140.1	139.1	138.4	138.4
20°	985.3	938.6	755.0	493.9	265.6	151.8	132.2	133.2	133.7	132.7	132.9
22.5°	1019.1	954.5	715.0	396.5	179.6	127.0	126.5	127.7	128.2	127.7	127.9
25°	1058.3	972.9	666.3	294.4	129.7	120.5	121.7	123.5	124.7	124.7	124.7
27.5°	1107.0	995.2	607.7	205.5	112.0	113.8	117.3	120.5	122.2	122.7	122.7
30°	1170.4	1023.1	537.4	140.9	101.9	104.8	111.3	117.5	120.7	121.2	121.5
32.5°	1250.4	1054.4	455.9	104.1	93.2	95.4	102.4	112.8	119.0	120.0	120.0
35°	1342.1	1090.6	368.2	90.7	87.0	87.7	93.2	105.1	116.0	118.8	119.0
37.5°	1442.4	1126.4	280.0	84.7	81.7	81.7	85.7	95.9	108.8	117.3	118.3
40°	1536.1	1148.0	196.3	80.0	77.0	77.0	80.5	87.9	100.1	112.8	115.5
42.5°	1622.5	1155.5	136.6	75.5	72.5	73.3	76.3	82.2	91.4	104.1	106.6
45°	1711.5	1154.2	99.6	70.3	68.1	70.3	72.5	77.0	83.7	90.9	91.4
47.5°	1778.6	1143.8	79.0	65.3	63.8	66.8	68.8	71.8	75.5	75.0	75.0
50°	1841.4	1118.5	63.6	58.6	59.6	63.1	64.1	65.1	65.3	60.6	60.1
52.5°	1889.1	1079.0	50.9	51.4	55.4	58.9	57.9	56.4	53.9	48.2	47.2
55°	1905.0	1002.9	40.0	42.5	49.2	53.7	49.9	46.7	42.0	37.3	36.3
57.5°	1876.2	904.8	32.5	33.0	41.5	45.2	41.0	37.3	32.0	28.1	27.3
60°	1815.1	795.7	26.8	24.8	32.0	35.3	32.5	28.8	24.1	21.1	20.9
62.5°	1693.9	679.5	22.1	19.4	24.3	27.1	25.3	22.6	18.6	16.6	16.4
65°	1439.0	543.6	17.9	15.7	18.9	21.1	19.6	17.6	14.7	13.2	12.9
67.5°	1004.4	367.4	14.7	12.9	14.9	16.6	15.4	14.4	11.7	11.4	11.7
70°	484.5	177.1	12.2	10.4	11.7	12.9	12.4	11.7	11.2	12.9	14.9
72.5°	138.9	59.4	9.7	8.7	9.4	10.2	10.7	10.4	12.2	15.7	18.1
73°	106.8	47.9	9.2	8.2	8.9	9.9	10.4	10.2	12.4	15.9	18.1
75°	45.7	23.1	7.0	6.7	7.5	8.7	9.2	9.2	12.4	16.1	17.4
77.5°	20.6	12.4	4.5	5.2	6.5	7.0	7.7	7.7	9.9	12.4	12.4
80°	11.7	6.7	3.5	4.0	4.7	4.7	4.7	4.2	4.5	5.0	5.5
82.5°	7.5	4.5	2.7	3.2	3.0	2.5	2.0	2.0	1.7	2.0	2.5
85°	4.2	2.5	2.5	2.0	1.2	1.0	1.2	1.0	0.2	0.0	0.2
87.5°	2.5	1.5	0.7	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)