

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: P385730

Luminaire Tested: GAW-SA1B-735-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385730  
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-SA1B-735-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4071.3 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

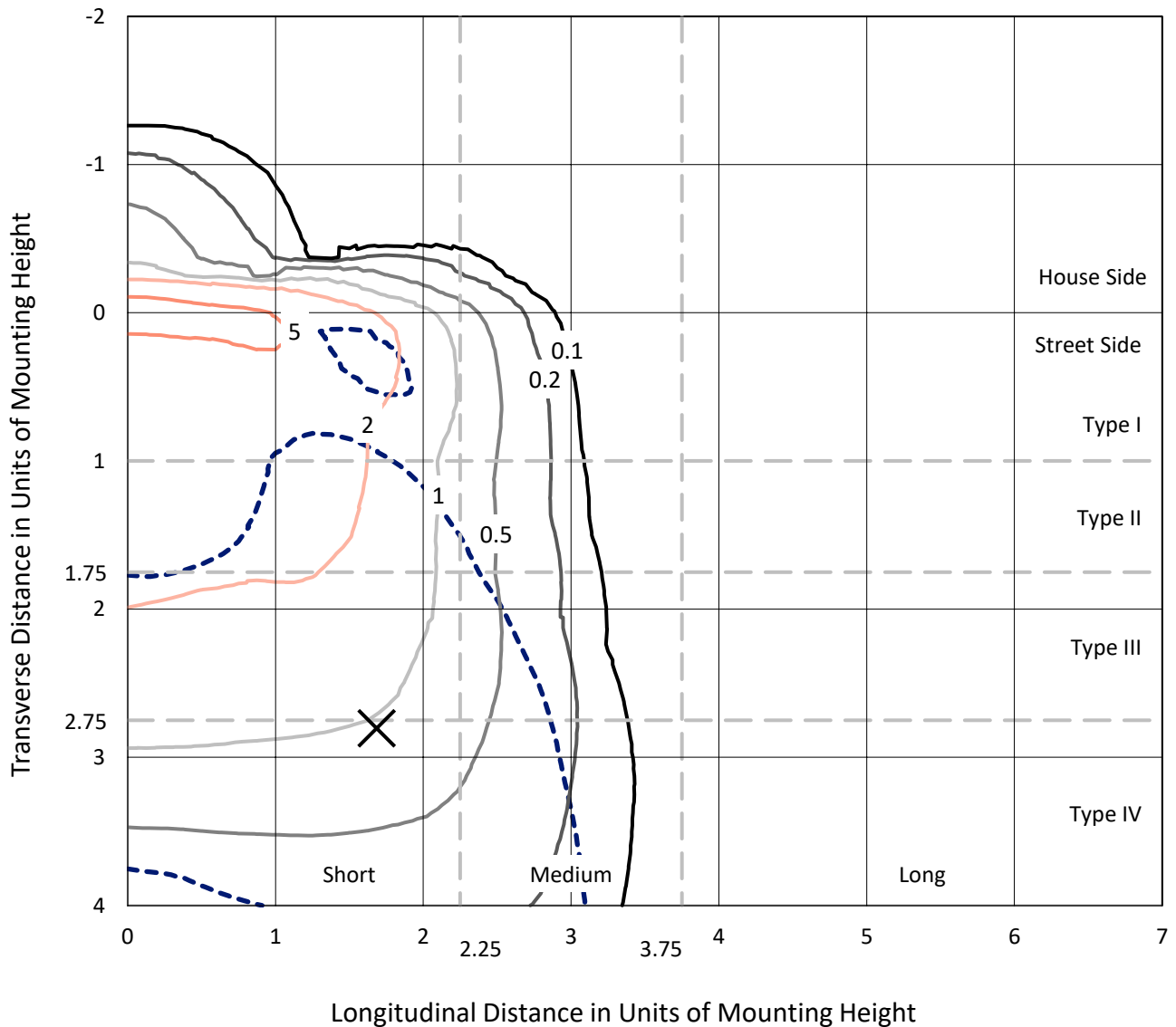
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

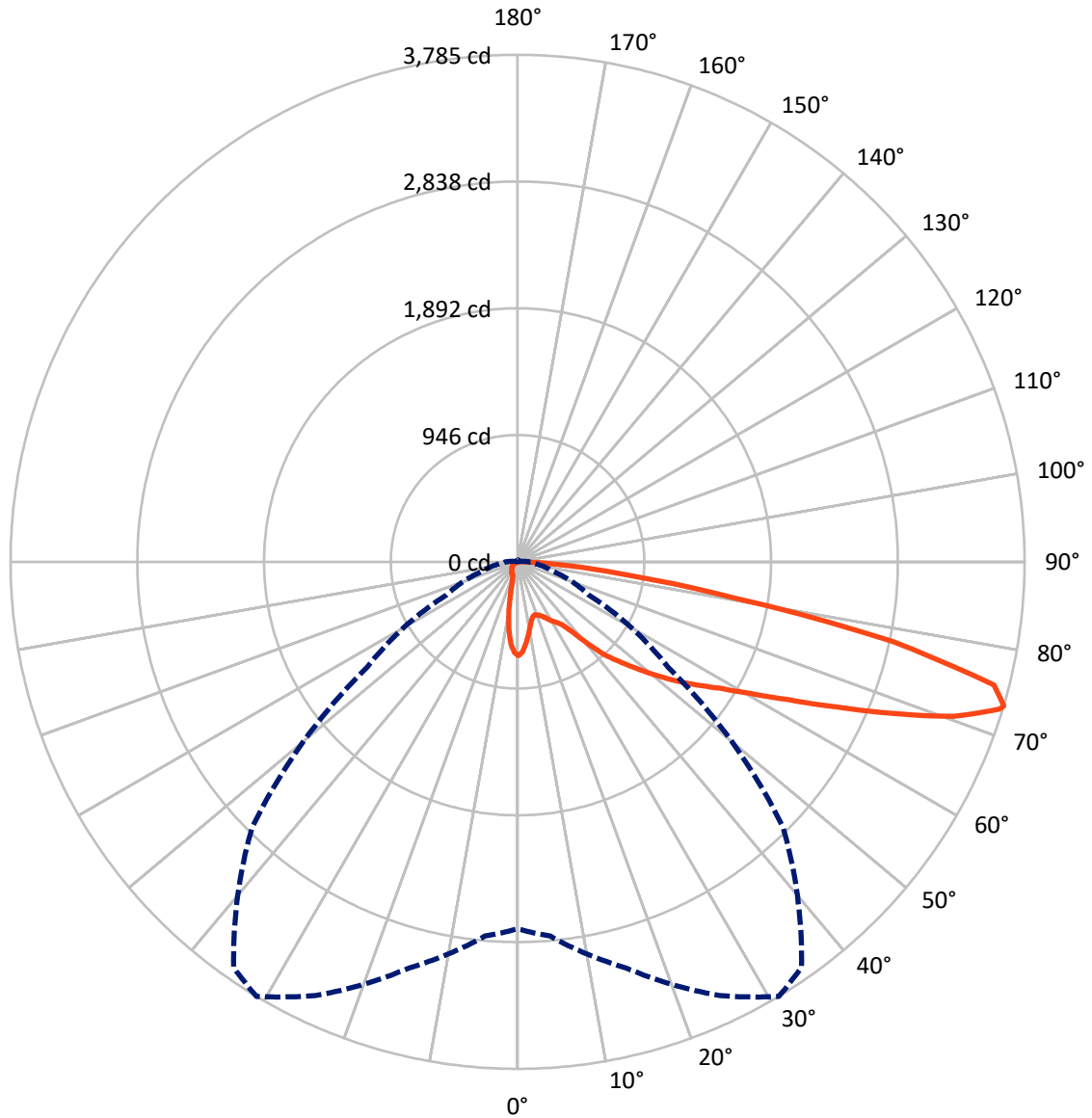
✕ Max cd  
 - - - 1/2 Max cd



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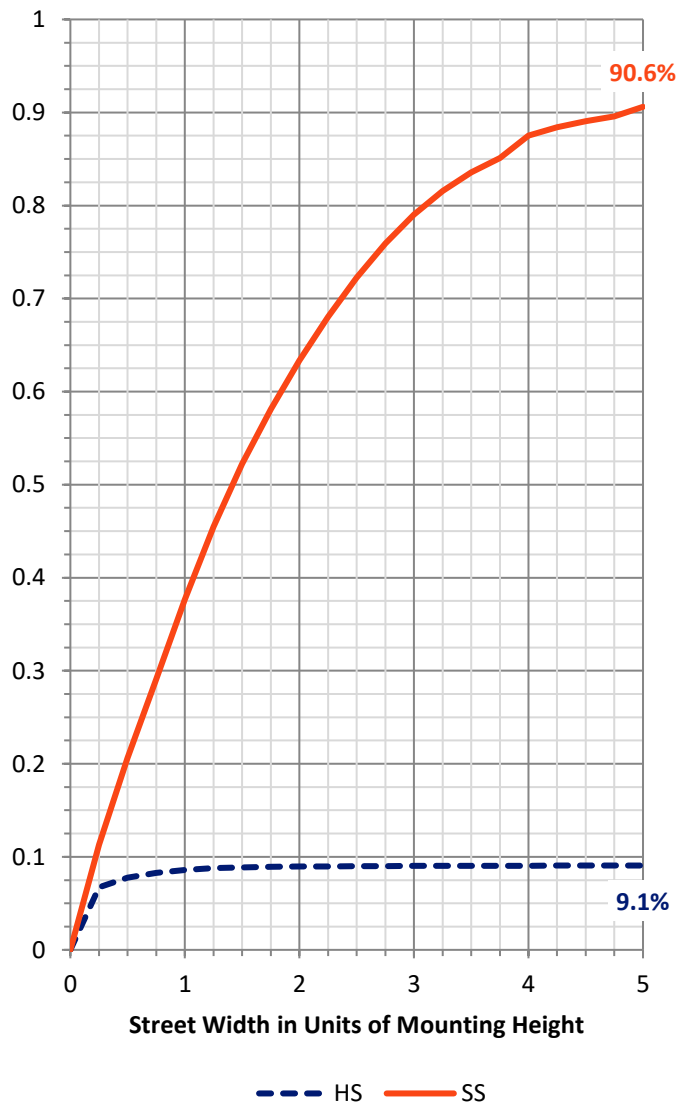
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	371.1	0.0	371.1
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	3700.2	0.0	3700.2
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	4071.3	0.0	4071.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	1.4
10°-20°	126.1	3.1
20°-30°	188.9	4.6
30°-40°	300.6	7.4
40°-50°	536.8	13.2
50°-60°	833.0	20.5
60°-70°	1107.3	27.2
70°-80°	832.9	20.5
80°-90°	87.5	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°	4071.3	100.0
0°-180°	4071.3	100.0

**Coefficient of Utilization**



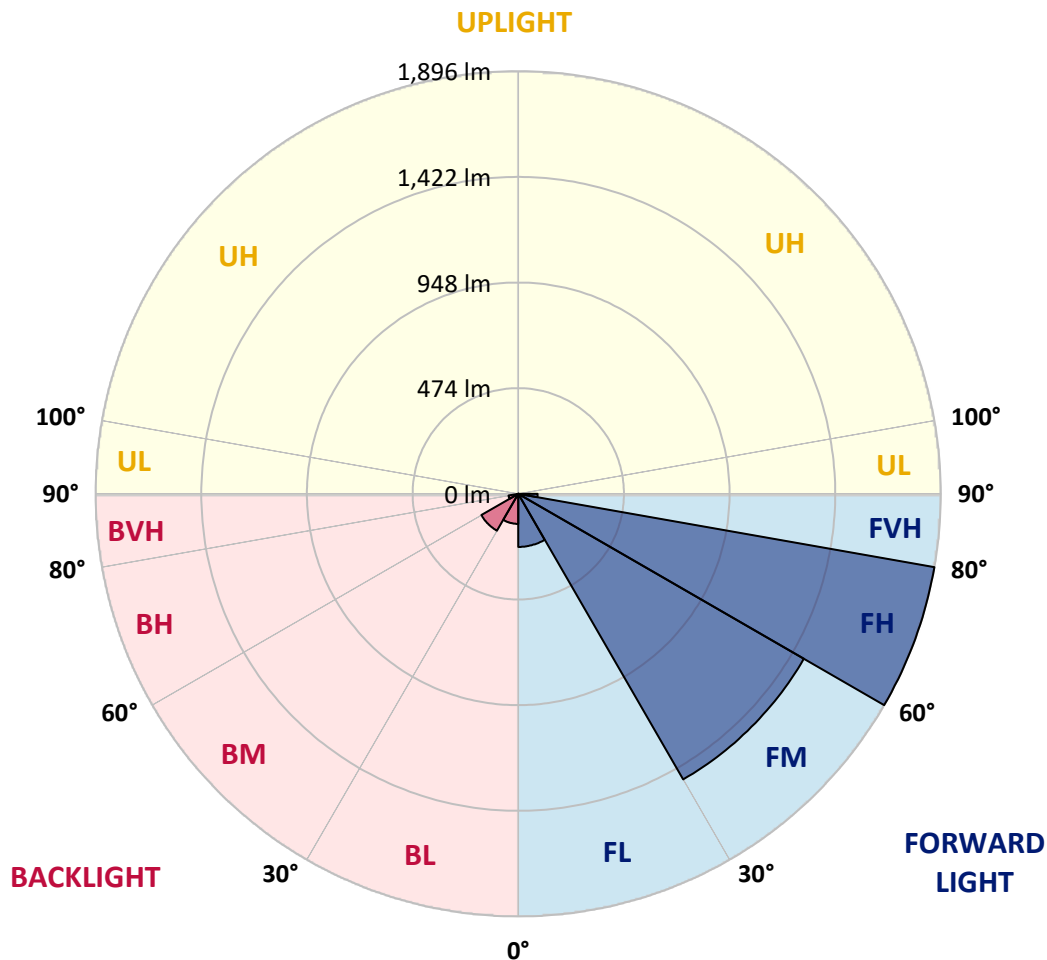
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.2	5.9			
FM (30°-60°)	1479.4	36.3			
FH (60°-80°)	1895.9	46.6			G2/5000
FVH (80°-90°)	86.8	2.1			G1/100
BL (0°-30°)	135.0	3.3	B1/500		
BM (30°-60°)	191.0	4.7	B0/220		
BH (60°-80°)	44.4	1.1	B0/110		G0/110
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	663.9	666.6	669.6	670.2	675.1	675.4	682.6	687.9	693.3	698.5	700.3
5°	595.7	600.3	605.6	611.0	621.6	625.7	643.3	661.2	678.3	694.7	702.7
7.5°	523.0	528.1	535.7	549.1	560.8	569.0	596.7	628.5	660.4	690.5	707.8
10°	456.6	461.4	469.4	483.5	501.6	512.8	550.1	594.3	641.1	686.7	715.6
12.5°	414.4	417.0	421.3	436.5	452.9	465.4	509.2	564.0	625.2	686.5	728.2
15°	406.7	407.4	403.8	410.6	423.4	435.5	479.9	539.5	613.0	689.7	744.5
17.5°	419.0	418.6	406.7	405.8	416.0	425.9	465.6	522.6	604.5	697.1	765.6
20°	437.7	436.3	415.6	411.8	422.5	431.9	464.6	516.2	601.3	709.4	791.3
22.5°	462.6	460.2	427.7	423.8	435.3	445.1	476.9	522.4	604.0	726.0	821.2
25°	493.5	489.9	448.7	444.2	456.1	465.8	499.1	540.1	612.4	746.1	859.1
27.5°	528.3	523.1	482.1	470.7	484.2	494.3	528.5	567.2	625.5	767.4	905.5
30°	561.2	554.4	517.4	498.6	515.0	526.3	560.4	599.4	646.7	800.3	969.1
32.5°	594.3	586.7	548.9	526.5	541.3	553.7	593.3	643.9	686.3	850.5	1053.5
35°	670.4	662.5	616.1	579.1	578.9	585.9	639.4	704.6	738.7	920.4	1154.3
37.5°	798.5	793.9	749.7	679.7	661.1	653.3	702.1	777.2	814.1	1016.6	1268.1
40°	938.7	934.8	885.2	821.8	793.3	774.2	792.1	878.1	920.4	1134.2	1384.2
42.5°	1097.1	1078.2	989.7	970.9	945.3	930.8	914.7	1002.7	1051.1	1262.1	1499.4
45°	1240.9	1209.1	1094.4	1065.6	1059.9	1063.5	1072.4	1170.0	1198.1	1414.1	1614.2
47.5°	1326.6	1301.5	1213.5	1186.0	1184.4	1208.2	1275.9	1359.1	1344.6	1546.6	1715.1
50°	1408.2	1385.4	1312.3	1319.1	1326.4	1358.7	1506.8	1553.6	1478.2	1666.8	1807.8
52.5°	1474.1	1439.4	1401.2	1439.2	1475.5	1527.5	1745.0	1728.1	1573.1	1762.4	1887.1
55°	1512.1	1496.4	1515.0	1553.2	1621.3	1705.8	1969.9	1873.3	1642.4	1849.7	1939.8
57.5°	1651.5	1620.7	1657.6	1690.6	1779.5	1897.7	2162.6	1981.5	1692.4	1903.6	1952.1
60°	1820.4	1795.5	1817.2	1872.1	1992.1	2130.9	2342.7	2069.8	1718.5	1938.3	1920.6
62.5°	2088.9	2056.1	2042.4	2104.1	2263.0	2414.6	2479.3	2130.9	1712.8	1922.9	1812.6
65°	2448.7	2414.6	2354.0	2409.8	2612.1	2719.1	2632.2	2143.9	1672.9	1798.8	1539.7
67.5°	2817.2	2792.5	2740.8	2834.8	3017.3	3051.7	2793.8	2112.4	1544.6	1458.5	1087.8
70°	3060.7	3050.1	3083.8	3291.8	3454.6	3444.7	2942.0	1943.2	1203.9	896.9	538.1
72.5°	2885.2	2935.8	3184.5	3561.6	3760.4	3679.1	2865.9	1492.2	688.1	345.0	155.6
73°	2739.7	2804.6	3139.2	3571.8	3784.5	3695.5	2801.9	1369.7	586.6	272.3	118.0
75°	1906.0	1985.5	2598.9	3326.5	3671.7	3520.9	2335.5	838.3	271.8	120.7	47.6
77.5°	925.4	984.2	1431.1	2403.4	2855.5	2750.9	1454.0	312.3	122.7	75.5	21.9
80°	345.4	384.1	621.2	1223.3	1650.2	1693.4	639.5	118.2	81.7	60.8	11.2
82.5°	90.5	100.8	229.1	545.5	845.7	885.2	201.6	59.6	59.7	50.0	6.8
85°	28.9	33.1	71.5	244.8	398.5	349.8	52.6	28.9	43.4	37.3	3.8
87.5°	3.6	4.6	22.7	57.6	87.8	48.8	8.2	8.5	18.5	20.8	2.2
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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	702.1	701.1	701.3	696.1	692.7	685.9	679.0	675.8	672.4	671.0	672.4
5°	705.7	703.9	698.7	682.8	665.8	643.9	623.4	607.9	588.3	582.9	588.5
7.5°	711.2	707.6	692.5	660.0	622.3	580.5	533.6	499.3	471.2	453.1	459.6
10°	719.4	712.6	682.2	627.0	559.6	485.5	418.8	366.7	329.9	314.8	314.2
12.5°	733.2	720.4	669.4	583.9	482.9	384.1	296.7	240.3	210.4	191.1	190.7
15°	748.3	729.5	653.3	532.4	393.7	275.1	191.1	148.2	128.9	122.7	121.9
17.5°	766.8	740.1	632.3	468.8	300.2	182.3	124.8	112.4	111.6	110.9	110.9
20°	790.1	752.6	605.4	396.0	213.0	121.7	106.0	106.8	107.2	106.4	106.6
22.5°	817.3	765.4	573.4	318.0	144.0	101.8	101.4	102.4	102.8	102.4	102.6
25°	848.7	780.2	534.3	236.1	104.0	96.7	97.6	99.0	100.0	100.0	100.0
27.5°	887.7	798.1	487.3	164.8	89.8	91.2	94.0	96.7	98.0	98.4	98.4
30°	938.5	820.4	430.9	112.9	81.7	84.1	89.2	94.2	96.9	97.2	97.4
32.5°	1002.7	845.5	365.6	83.5	74.7	76.5	82.1	90.5	95.4	96.2	96.2
35°	1076.3	874.6	295.3	72.7	69.7	70.4	74.7	84.3	93.0	95.3	95.4
37.5°	1156.7	903.3	224.5	67.9	65.6	65.6	68.8	76.9	87.3	94.0	94.9
40°	1231.8	920.6	157.3	64.2	61.7	61.7	64.5	70.5	80.3	90.5	92.6
42.5°	1301.2	926.6	109.5	60.6	58.1	58.8	61.2	65.9	73.3	83.5	85.5
45°	1372.5	925.6	79.8	56.4	54.6	56.4	58.1	61.7	67.2	72.9	73.3
47.5°	1426.3	917.2	63.3	52.4	51.2	53.5	55.1	57.6	60.6	60.1	60.1
50°	1476.6	896.9	51.0	47.1	47.8	50.6	51.4	52.2	52.4	48.6	48.2
52.5°	1515.0	865.3	40.9	41.2	44.4	47.3	46.4	45.2	43.2	38.6	37.9
55°	1527.6	804.3	32.0	34.1	39.5	43.0	40.0	37.5	33.6	29.9	29.1
57.5°	1504.5	725.6	26.1	26.5	33.3	36.3	32.9	29.9	25.7	22.5	21.9
60°	1455.6	638.1	21.5	19.9	25.7	28.3	26.1	23.1	19.4	16.9	16.7
62.5°	1358.4	544.8	17.8	15.5	19.5	21.7	20.3	18.1	14.9	13.3	13.2
65°	1154.0	435.9	14.4	12.6	15.1	16.9	15.8	14.2	11.7	10.5	10.3
67.5°	805.4	294.7	11.7	10.3	11.9	13.3	12.3	11.6	9.4	9.2	9.4
70°	388.5	142.0	9.8	8.4	9.4	10.3	10.0	9.4	8.9	10.3	11.9
72.5°	111.4	47.6	7.8	7.0	7.6	8.2	8.5	8.4	9.8	12.6	14.6
73°	85.7	38.4	7.3	6.6	7.1	8.0	8.4	8.2	10.0	12.8	14.6
75°	36.6	18.5	5.5	5.4	6.0	7.0	7.3	7.3	10.0	13.0	13.9
77.5°	16.5	10.0	3.6	4.2	5.2	5.5	6.2	6.2	8.0	10.0	10.0
80°	9.4	5.4	2.8	3.2	3.8	3.8	3.8	3.4	3.6	3.9	4.4
82.5°	6.0	3.6	2.2	2.6	2.3	2.0	1.6	1.6	1.4	1.6	2.0
85°	3.4	2.0	2.0	1.6	1.0	0.8	1.0	0.8	0.2	0.0	0.2
87.5°	2.0	1.2	0.6	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)