

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: P385698

Luminaire Tested: GAW-SA1B-730-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-730-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4051 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

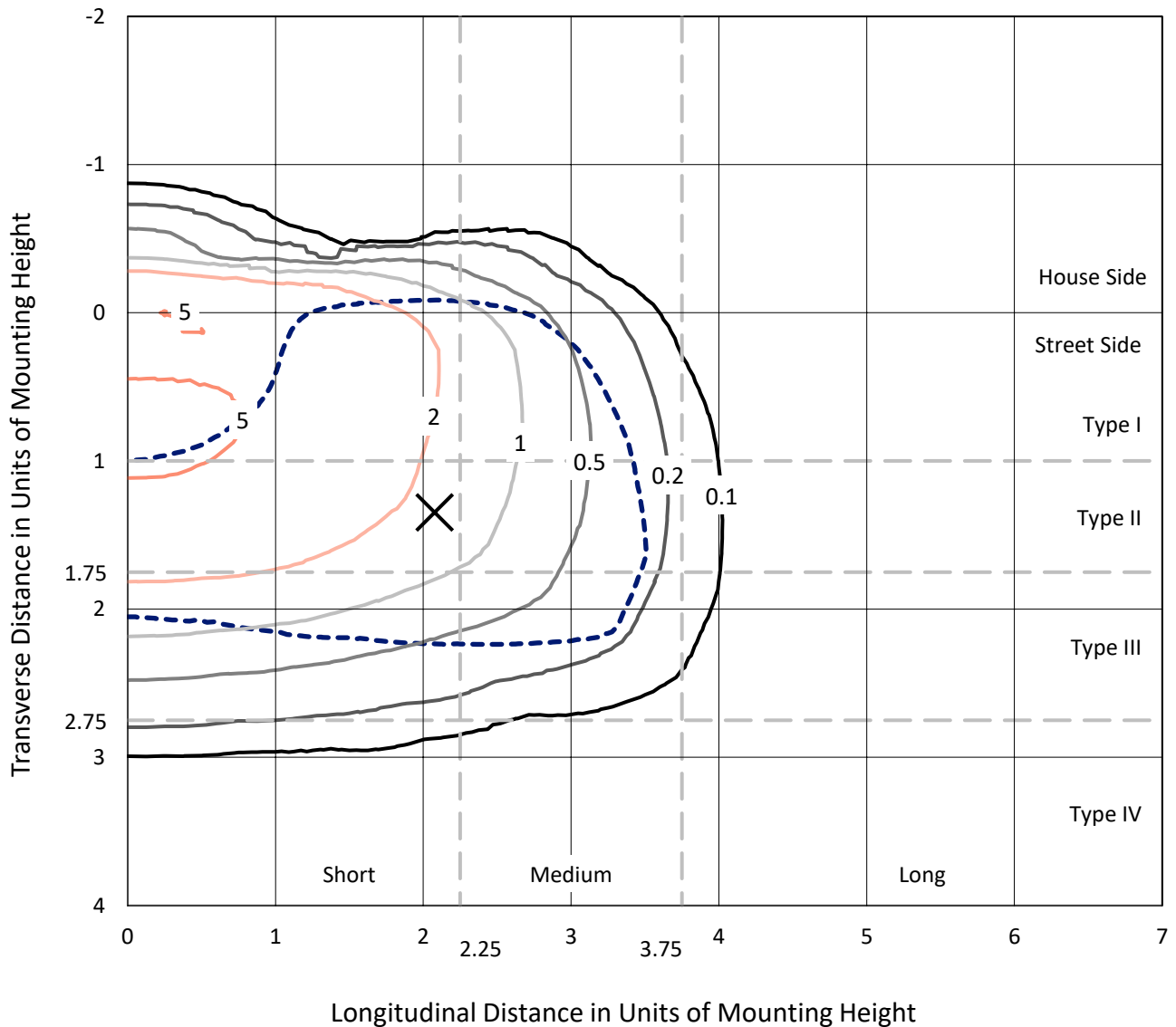
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

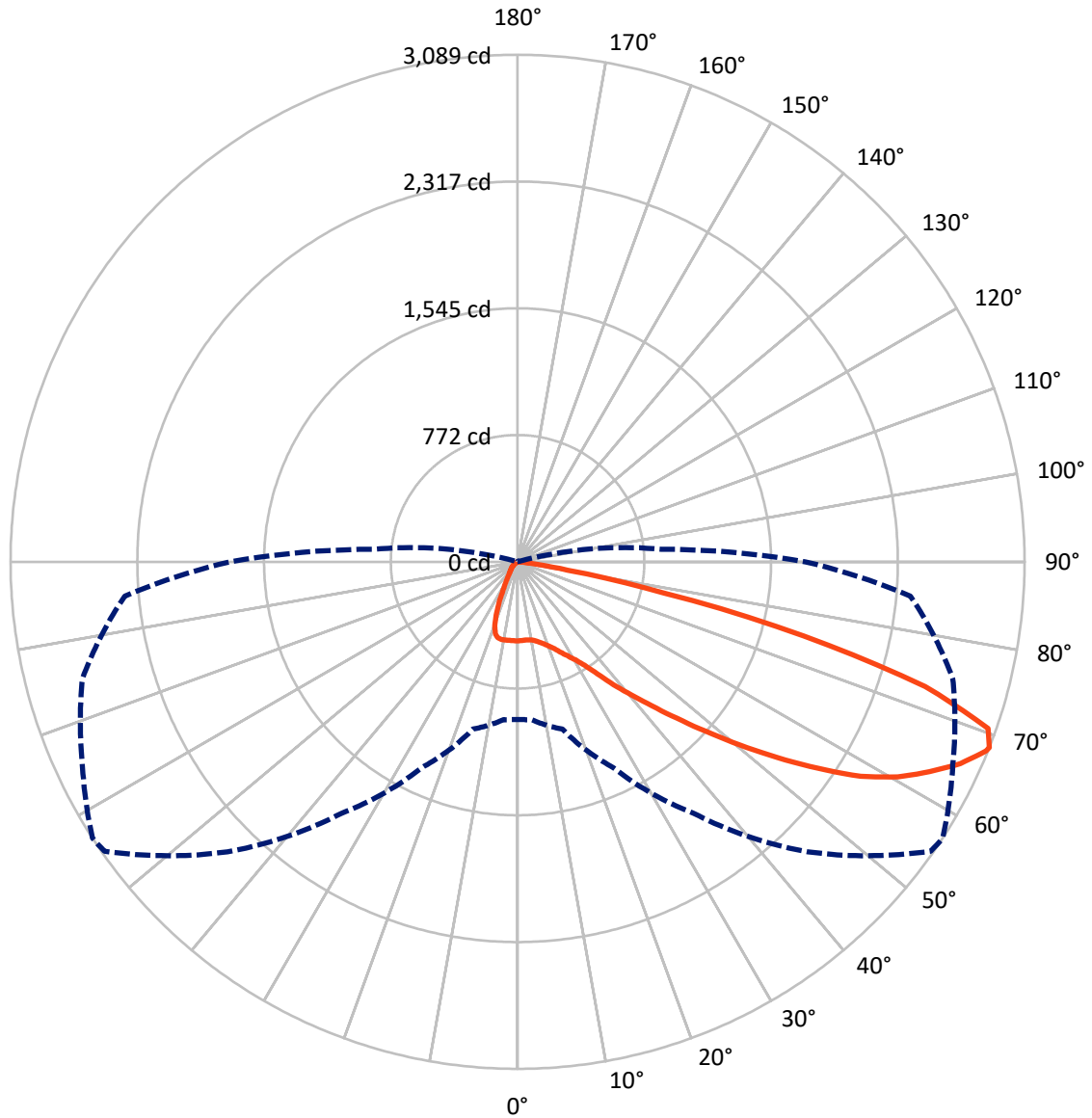
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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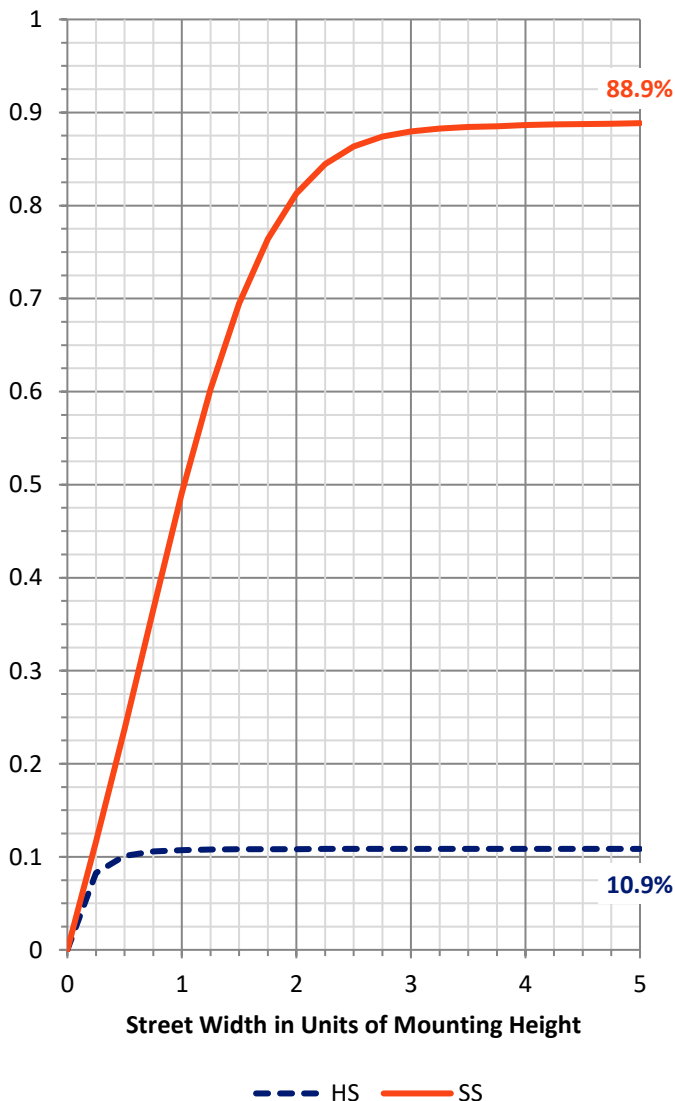
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	444.2	0.0	444.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3606.8	0.0	3606.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4051.0	0.0	4051.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	1.1
10°-20°	124.8	3.1
20°-30°	215.3	5.3
30°-40°	371.7	9.2
40°-50°	635.8	15.7
50°-60°	1017.2	25.1
60°-70°	1175.2	29.0
70°-80°	449.1	11.1
80°-90°	16.8	0.4
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°	4051.0	100.0
0°-180°	4051.0	100.0

**Coefficient of Utilization**



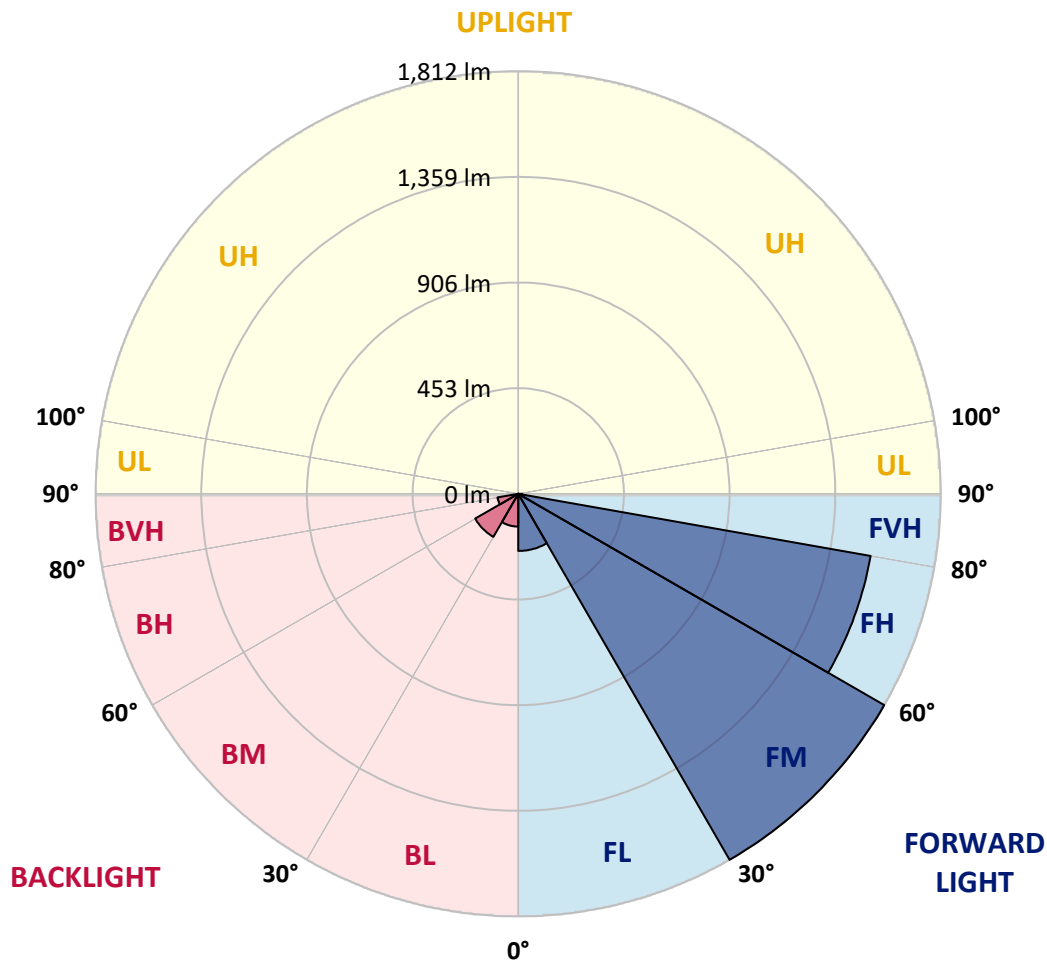
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.8	6.0			
FM (30°-60°)	1811.6	44.7			
FH (60°-80°)	1533.8	37.9			G1/1800
FVH (80°-90°)	16.5	0.4			G1/100
BL (0°-30°)	140.4	3.5	B1/500		
BM (30°-60°)	213.1	5.3	B0/220		
BH (60°-80°)	90.5	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4
2.5°	470.1	472.2	473.7	474.7	475.8	478.3	479.1	480.2	480.8	480.8	482.1
5°	451.5	453.8	457.0	459.7	465.1	472.0	477.0	478.9	482.3	485.4	487.1
7.5°	434.2	436.9	440.8	447.1	456.3	467.4	477.7	480.4	487.1	493.6	496.9
10°	423.1	425.2	430.2	439.2	451.3	466.8	481.4	484.6	496.1	507.0	513.2
12.5°	419.3	421.2	426.4	436.5	451.5	469.7	489.8	494.6	511.4	527.3	536.0
15°	424.9	425.2	430.8	440.4	455.1	476.8	503.8	509.5	530.8	551.5	562.2
17.5°	446.3	444.6	447.5	451.7	463.4	486.2	518.5	527.1	555.5	579.8	590.0
20°	499.9	499.9	493.4	481.9	482.1	500.7	538.4	548.2	582.9	611.0	620.2
22.5°	591.7	590.0	576.9	548.8	522.9	525.8	562.8	575.4	615.8	645.9	649.0
25°	702.0	699.9	679.8	640.2	595.3	566.4	595.7	610.3	655.1	681.7	675.4
27.5°	818.9	817.2	797.2	748.0	684.2	631.2	635.0	648.8	695.1	721.4	701.3
30°	932.1	932.7	912.9	862.4	790.1	713.7	684.8	692.8	734.0	760.6	731.9
32.5°	1039.7	1040.5	1023.5	966.9	899.5	809.7	753.7	751.6	779.2	805.5	772.5
35°	1135.7	1137.6	1125.9	1082.1	1010.6	916.6	843.2	838.2	843.4	873.1	834.8
37.5°	1228.2	1229.4	1220.6	1183.6	1123.8	1034.0	956.2	949.1	938.0	960.8	917.0
40°	1329.5	1326.7	1316.5	1283.0	1231.7	1163.7	1077.7	1065.4	1046.1	1066.4	1025.0
42.5°	1423.8	1420.5	1422.3	1384.3	1341.0	1297.0	1219.2	1198.1	1186.8	1210.2	1157.5
45°	1541.6	1539.9	1545.6	1512.7	1477.6	1445.6	1381.5	1358.5	1353.5	1380.9	1317.9
47.5°	1657.9	1662.1	1679.9	1665.9	1651.7	1623.6	1553.3	1542.9	1546.0	1579.1	1487.0
50°	1754.8	1759.8	1808.6	1824.7	1845.2	1828.7	1758.2	1751.9	1764.0	1793.9	1669.0
52.5°	1824.9	1835.1	1895.8	1969.9	2044.6	2055.7	1985.4	1979.7	1996.0	2000.6	1809.6
55°	1873.6	1882.6	1951.3	2086.9	2239.0	2286.9	2243.2	2221.0	2218.0	2172.6	1957.5
57.5°	1882.2	1881.2	1980.1	2162.6	2391.5	2515.1	2487.5	2465.6	2402.8	2331.5	2127.0
60°	1833.5	1839.1	1953.8	2188.8	2487.3	2687.6	2689.7	2661.4	2563.5	2486.1	2291.3
62.5°	1683.7	1706.3	1822.2	2120.1	2486.1	2757.2	2838.0	2816.4	2699.3	2612.7	2458.0
65°	1440.8	1448.9	1559.4	1884.5	2318.1	2728.1	2971.5	2963.5	2821.7	2735.7	2543.6
67.5°	1052.2	1034.8	1150.8	1483.9	1962.6	2558.3	3067.3	3077.4	2916.2	2761.0	2452.4
68°	960.2	965.4	1055.8	1384.9	1869.5	2498.4	3073.6	3089.1	2925.5	2744.5	2402.6
70°	572.4	582.3	663.0	953.5	1422.3	2159.2	3005.4	3040.9	2869.6	2574.6	2078.1
72.5°	146.2	158.0	234.3	426.8	812.4	1521.3	2537.1	2597.0	2491.5	2088.7	1402.9
75°	60.1	63.2	83.7	140.6	302.6	685.4	1672.2	1800.6	1727.2	1250.4	634.0
77.5°	41.6	43.7	53.8	78.0	131.0	232.4	819.8	912.5	822.1	426.8	138.3
80°	29.9	31.6	38.5	51.9	75.3	82.9	267.2	309.0	245.4	93.7	34.3
82.5°	17.8	19.2	28.7	37.0	45.8	39.7	66.5	75.5	71.1	46.5	15.3
85°	8.8	10.3	19.3	26.4	24.7	16.7	20.3	22.6	28.0	28.3	8.2
87.5°	0.6	1.1	11.3	15.9	6.9	3.8	5.9	7.3	10.0	14.0	3.4
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°	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4
2.5°	482.7	482.9	481.6	481.0	481.4	479.1	478.1	478.5	478.5	479.1	478.1
5°	487.5	487.5	485.2	482.1	480.4	476.0	473.1	472.4	471.8	471.4	470.6
7.5°	497.8	496.7	492.7	486.0	480.2	470.6	463.4	459.5	457.6	456.8	456.3
10°	514.5	512.4	505.7	493.2	480.0	463.0	447.1	435.8	426.4	422.6	420.3
12.5°	536.9	533.9	522.5	501.9	478.7	447.3	412.8	379.7	348.8	336.2	329.8
15°	562.8	558.4	540.6	509.1	470.8	411.8	336.9	278.9	236.2	220.1	213.2
17.5°	589.0	583.3	556.3	513.7	447.3	338.5	236.4	178.5	150.0	142.3	139.6
20°	615.5	607.0	569.9	510.3	394.0	244.0	155.9	130.4	122.2	119.9	119.1
22.5°	640.5	627.5	582.1	496.9	312.0	163.8	123.4	115.3	112.6	111.3	110.9
25°	662.4	644.2	592.8	455.5	220.9	123.7	111.1	108.4	105.0	102.5	102.7
27.5°	682.9	660.8	599.4	387.3	147.3	105.7	102.9	99.2	92.9	89.3	89.3
30°	707.6	683.1	604.1	298.1	108.4	93.5	91.2	85.6	77.0	72.2	72.2
32.5°	744.7	716.8	601.1	209.2	89.8	82.2	76.8	69.1	59.8	55.2	55.0
35°	801.6	768.9	579.2	137.1	79.3	71.4	62.8	53.4	45.2	41.4	41.2
37.5°	878.3	838.6	530.2	98.1	71.1	61.5	51.1	40.8	34.7	32.2	32.0
40°	977.7	919.6	460.1	79.5	63.4	51.9	39.5	31.6	27.4	25.5	25.7
42.5°	1097.0	1006.4	376.0	68.6	55.9	42.7	30.8	24.9	22.2	20.9	20.5
45°	1229.6	1092.0	287.9	61.1	48.5	34.5	24.1	19.7	17.6	16.9	16.9
47.5°	1375.3	1175.4	210.7	54.6	40.4	26.6	19.3	16.1	14.4	13.8	13.6
50°	1507.7	1233.2	151.9	47.7	33.1	21.1	15.7	13.4	12.3	11.5	11.5
52.5°	1618.0	1251.4	111.9	40.2	26.8	16.9	13.0	11.5	10.3	9.8	9.8
55°	1715.1	1243.9	83.1	33.1	21.6	13.8	11.1	9.8	8.8	8.2	8.2
57.5°	1808.2	1219.8	62.1	27.0	17.4	11.1	9.4	8.2	7.3	6.9	6.9
60°	1884.3	1179.6	46.2	21.8	14.0	9.0	7.9	6.7	5.9	5.4	5.4
62.5°	1946.0	1135.1	33.9	18.0	11.1	7.1	6.1	5.6	4.4	3.8	3.8
65°	1946.3	1061.4	25.5	14.9	8.6	5.6	4.6	4.4	2.9	2.3	2.1
67.5°	1805.6	915.0	19.5	12.8	6.7	4.2	3.4	3.6	1.5	1.0	0.8
68°	1754.4	877.9	18.4	12.6	6.3	4.0	3.3	3.6	1.3	0.8	0.6
70°	1479.2	698.4	14.7	12.3	5.6	3.1	2.7	3.6	1.1	0.6	0.4
72.5°	946.1	405.3	10.9	9.8	4.2	2.3	1.7	3.3	1.1	0.4	0.2
75°	402.6	125.7	7.5	6.9	2.5	1.7	1.1	2.1	0.8	0.2	0.0
77.5°	84.9	28.3	4.4	4.2	1.7	1.1	0.8	0.6	0.2	0.0	0.0
80°	21.8	8.2	2.3	2.1	1.0	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	6.9	3.3	1.3	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.2	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)