

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: P387070

Luminaire Tested: GAW-SA2D-735-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387070  
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-SA2D-735-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11084.8 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

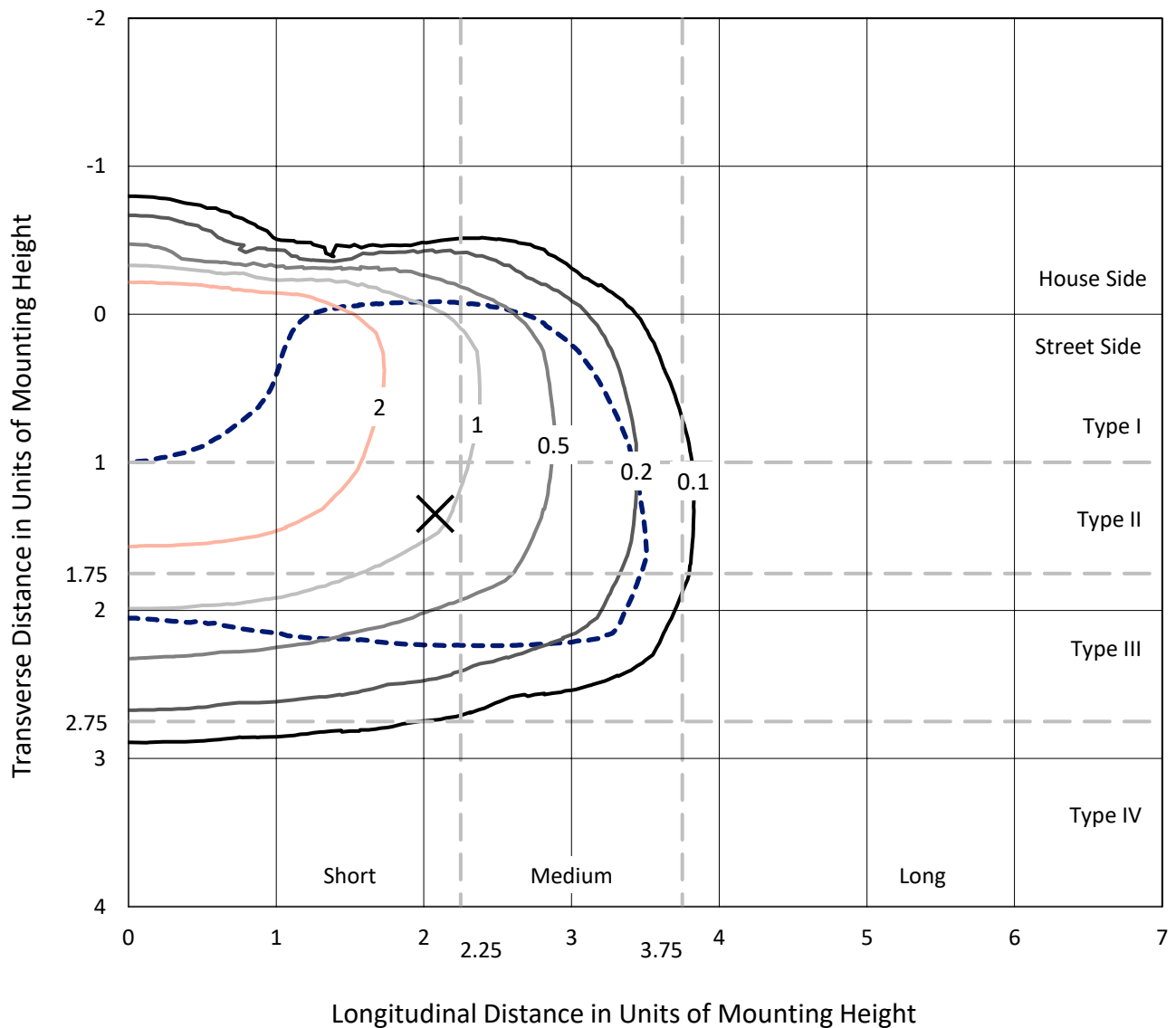
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

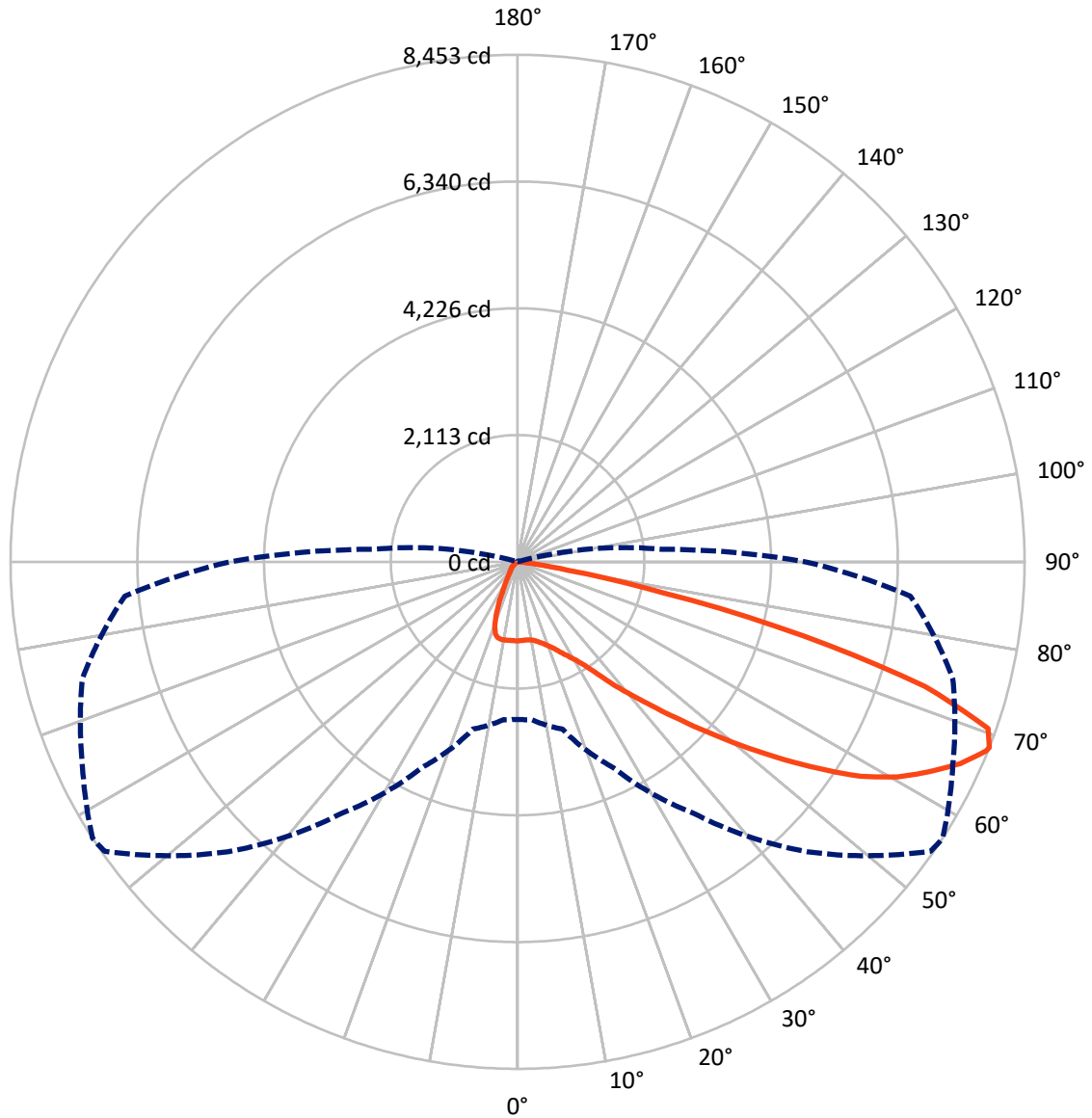
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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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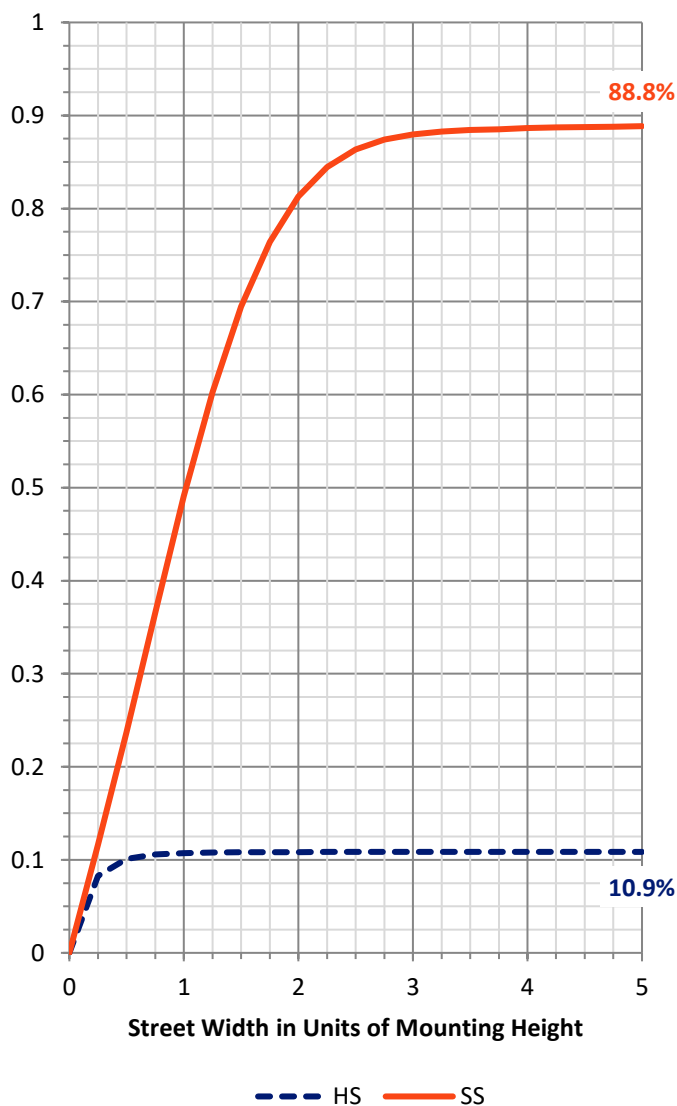
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1215.5	0.0	1215.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	9869.3	0.0	9869.3
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	11084.8	0.0	11084.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	1.1
10°-20°	341.6	3.1
20°-30°	589.3	5.3
30°-40°	1017.0	9.2
40°-50°	1739.7	15.7
50°-60°	2783.3	25.1
60°-70°	3215.8	29.0
70°-80°	1228.8	11.1
80°-90°	46.1	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°	11084.8	100.0
0°-180°	11084.8	100.0

**Coefficient of Utilization**

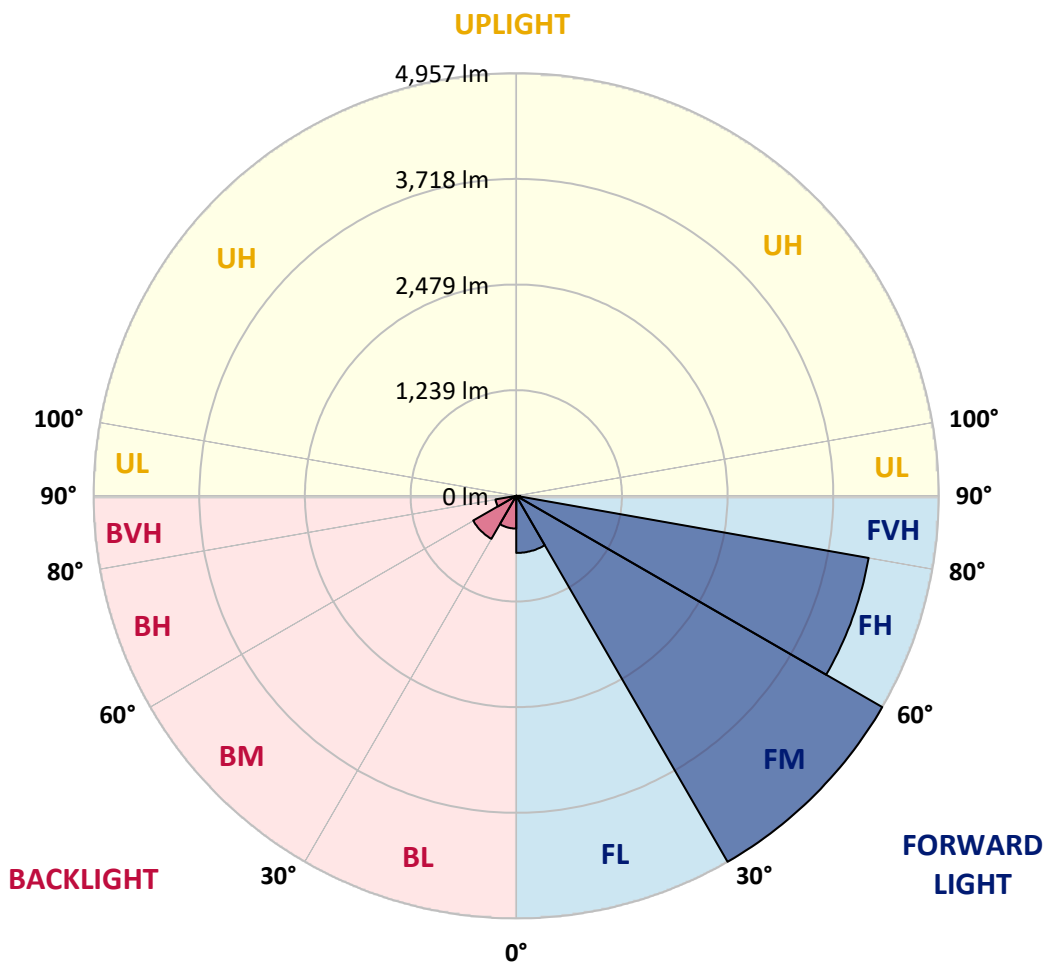


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.0	6.0			
FM (30°-60°)	4957.0	44.7			
FH (60°-80°)	4197.1	37.9			G2/5000
FVH (80°-90°)	45.2	0.4			G1/100
BL (0°-30°)	384.1	3.5	B1/500		
BM (30°-60°)	583.0	5.3	B1/1000		
BH (60°-80°)	247.6	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1286.2	1292.0	1296.2	1298.8	1302.0	1308.8	1310.9	1314.0	1315.6	1315.6	1319.3
5°	1235.4	1241.7	1250.6	1257.9	1272.6	1291.5	1305.1	1310.4	1319.8	1328.2	1332.9
7.5°	1188.2	1195.6	1206.1	1223.4	1248.5	1278.9	1307.2	1314.6	1332.9	1350.8	1359.6
10°	1157.8	1163.6	1177.2	1201.9	1234.9	1277.3	1317.2	1326.0	1357.5	1387.4	1404.2
12.5°	1147.4	1152.6	1166.7	1194.5	1235.4	1285.2	1340.2	1353.4	1399.5	1443.0	1466.6
15°	1162.6	1163.6	1178.8	1205.0	1245.4	1304.6	1378.5	1394.2	1452.4	1509.0	1538.4
17.5°	1221.2	1216.5	1224.4	1236.0	1267.9	1330.3	1418.9	1442.4	1520.0	1586.5	1614.3
20°	1368.0	1368.0	1350.2	1318.7	1319.3	1370.1	1473.3	1500.1	1595.0	1672.0	1697.2
22.5°	1619.0	1614.3	1578.7	1501.7	1430.9	1438.8	1539.9	1574.5	1685.1	1767.4	1775.8
25°	1921.0	1915.2	1860.2	1751.7	1629.0	1549.9	1630.1	1670.0	1792.6	1865.4	1848.2
27.5°	2240.7	2236.0	2181.5	2046.8	1872.2	1727.1	1737.5	1775.3	1902.1	1973.9	1918.9
30°	2550.5	2552.1	2498.0	2359.7	2162.1	1953.0	1873.8	1895.8	2008.5	2081.4	2002.8
32.5°	2845.0	2847.1	2800.5	2645.9	2461.4	2215.6	2062.5	2056.7	2132.2	2204.0	2113.8
35°	3107.6	3112.9	3080.9	2960.9	2765.4	2508.0	2307.2	2293.6	2307.8	2389.1	2284.2
37.5°	3360.8	3364.0	3339.8	3238.7	3075.1	2829.4	2616.5	2597.1	2566.7	2629.1	2509.0
40°	3638.1	3630.2	3602.5	3510.7	3370.3	3184.2	2948.9	2915.3	2862.3	2917.9	2804.7
42.5°	3895.9	3887.0	3891.7	3788.0	3669.6	3548.9	3336.2	3278.5	3247.6	3311.6	3167.4
45°	4218.3	4213.6	4229.3	4139.2	4043.2	3955.7	3780.1	3717.2	3703.6	3778.5	3606.1
47.5°	4536.4	4548.0	4596.7	4558.5	4519.7	4442.7	4250.3	4222.0	4230.4	4321.0	4068.9
50°	4801.7	4815.3	4948.9	4993.0	5049.1	5004.0	4811.1	4793.8	4826.8	4908.6	4566.9
52.5°	4993.5	5021.2	5187.4	5390.3	5594.7	5625.1	5432.7	5417.0	5461.5	5474.1	4951.5
55°	5126.6	5151.3	5339.4	5710.6	6126.7	6257.8	6138.3	6077.4	6069.0	5944.9	5356.2
57.5°	5150.2	5147.6	5418.0	5917.6	6543.9	6882.0	6806.6	6746.7	6574.8	6379.9	5820.1
60°	5017.1	5032.3	5346.3	5989.4	6806.0	7354.2	7360.1	7282.5	7014.6	6802.9	6269.8
62.5°	4607.3	4669.1	4986.2	5801.2	6802.9	7544.6	7765.7	7706.5	7386.3	7149.4	6725.8
65°	3942.6	3964.6	4267.0	5156.5	6343.2	7464.9	8131.0	8109.0	7721.2	7485.8	6960.1
67.5°	2879.1	2831.4	3149.0	4060.5	5370.3	7000.5	8393.1	8420.9	7979.6	7555.0	6710.6
68°	2627.5	2641.7	2889.1	3789.5	5115.7	6836.4	8410.4	8452.9	8005.2	7509.9	6574.3
70°	1566.2	1593.4	1814.1	2609.2	3891.7	5908.1	8223.8	8320.8	7852.2	7045.0	5686.4
72.5°	399.9	432.4	641.0	1167.8	2222.9	4162.7	6942.3	7106.3	6817.6	5715.3	3838.8
75°	164.6	172.9	229.0	384.7	828.2	1875.4	4575.8	4926.9	4726.2	3421.6	1734.9
77.5°	113.8	119.5	147.3	213.3	358.5	635.8	2243.4	2497.0	2249.7	1167.8	378.4
80°	81.7	86.5	105.3	142.0	206.0	227.0	731.2	845.5	671.4	256.3	93.8
82.5°	48.8	52.4	78.6	101.2	125.3	108.5	181.9	206.5	194.5	127.4	41.9
85°	24.1	28.3	53.0	72.3	67.6	45.6	55.5	61.8	76.6	77.6	22.5
87.5°	1.6	3.1	30.9	43.5	18.9	10.5	16.3	19.9	27.2	38.2	9.4
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°	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2	1317.2
2.5°	1320.9	1321.4	1317.7	1316.1	1317.2	1310.9	1308.3	1309.3	1309.3	1310.9	1308.3
5°	1333.9	1333.9	1327.6	1319.3	1314.6	1302.5	1294.7	1292.5	1291.0	1289.9	1287.8
7.5°	1362.2	1359.1	1348.1	1329.7	1314.0	1287.8	1267.9	1257.4	1252.2	1250.1	1248.5
10°	1407.9	1402.0	1383.7	1349.6	1313.5	1266.9	1223.4	1192.5	1166.7	1156.3	1150.0
12.5°	1469.2	1460.8	1429.9	1373.3	1309.8	1223.8	1129.5	1038.9	954.4	919.9	902.6
15°	1539.9	1527.9	1479.2	1393.2	1288.4	1126.9	921.9	763.2	646.3	602.2	583.4
17.5°	1611.7	1596.0	1522.1	1405.7	1223.8	926.1	646.8	488.5	410.4	389.5	382.1
20°	1684.1	1661.0	1559.3	1396.3	1078.1	667.7	426.7	357.0	334.4	328.1	326.1
22.5°	1752.7	1717.1	1592.8	1359.6	853.8	448.2	337.5	315.5	308.2	304.6	303.5
25°	1812.5	1762.7	1622.2	1246.4	604.3	338.6	304.0	296.7	287.3	280.4	281.0
27.5°	1868.5	1808.3	1640.1	1059.8	403.1	289.3	281.4	271.5	254.2	244.2	244.2
30°	1936.2	1869.1	1653.1	815.6	296.7	255.8	249.5	234.3	210.7	197.6	197.6
32.5°	2037.8	1961.4	1644.8	572.4	245.8	224.9	210.1	189.2	163.5	151.0	150.4
35°	2193.6	2103.9	1585.0	375.3	217.0	195.5	171.9	146.3	123.7	113.2	112.7
37.5°	2403.2	2294.7	1450.8	268.4	194.5	168.2	140.0	111.6	94.9	88.0	87.6
40°	2675.2	2516.4	1259.0	217.6	173.5	142.0	107.9	86.5	75.0	69.7	70.3
42.5°	3001.7	2753.8	1028.9	187.6	153.0	116.9	84.4	68.1	60.8	57.1	56.1
45°	3364.4	2988.1	787.8	167.2	132.6	94.3	66.0	54.0	48.2	46.1	46.1
47.5°	3763.3	3216.1	576.6	149.4	110.6	72.9	53.0	44.1	39.3	37.8	37.2
50°	4125.5	3374.4	415.7	130.5	90.7	57.7	43.0	36.7	33.5	31.5	31.5
52.5°	4427.5	3424.2	306.1	110.1	73.4	46.1	35.6	31.5	28.3	26.8	26.8
55°	4693.2	3403.8	227.5	90.7	59.2	37.8	30.4	26.8	24.1	22.5	22.5
57.5°	4947.9	3337.8	169.8	73.9	47.7	30.4	25.6	22.5	19.9	18.9	18.9
60°	5156.0	3227.7	126.3	59.7	38.2	24.6	21.5	18.3	16.3	14.7	14.7
62.5°	5324.8	3106.1	92.8	49.2	30.4	19.4	16.8	15.2	12.0	10.5	10.5
65°	5325.8	2904.3	69.7	40.9	23.6	15.2	12.6	12.0	7.9	6.3	5.7
67.5°	4940.6	2503.9	53.5	35.1	18.3	11.6	9.4	10.0	4.2	2.6	2.1
68°	4800.6	2402.1	50.4	34.6	17.3	11.0	8.9	10.0	3.7	2.1	1.6
70°	4047.5	1911.0	40.4	33.5	15.2	8.4	7.3	10.0	3.1	1.6	1.0
72.5°	2588.8	1109.0	29.9	26.8	11.6	6.3	4.7	8.9	3.1	1.0	0.6
75°	1101.7	343.8	20.5	18.9	6.9	4.7	3.1	5.7	2.1	0.6	0.0
77.5°	232.2	77.6	12.0	11.6	4.7	3.1	2.1	1.6	0.6	0.0	0.0
80°	59.7	22.5	6.3	5.7	2.6	1.6	1.0	0.0	0.0	0.0	0.0
82.5°	18.9	8.9	3.7	2.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	5.3	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.6	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)