

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: P386734

Luminaire Tested: GAW-SA2B-830-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386734
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-SA2B-830-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6906 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

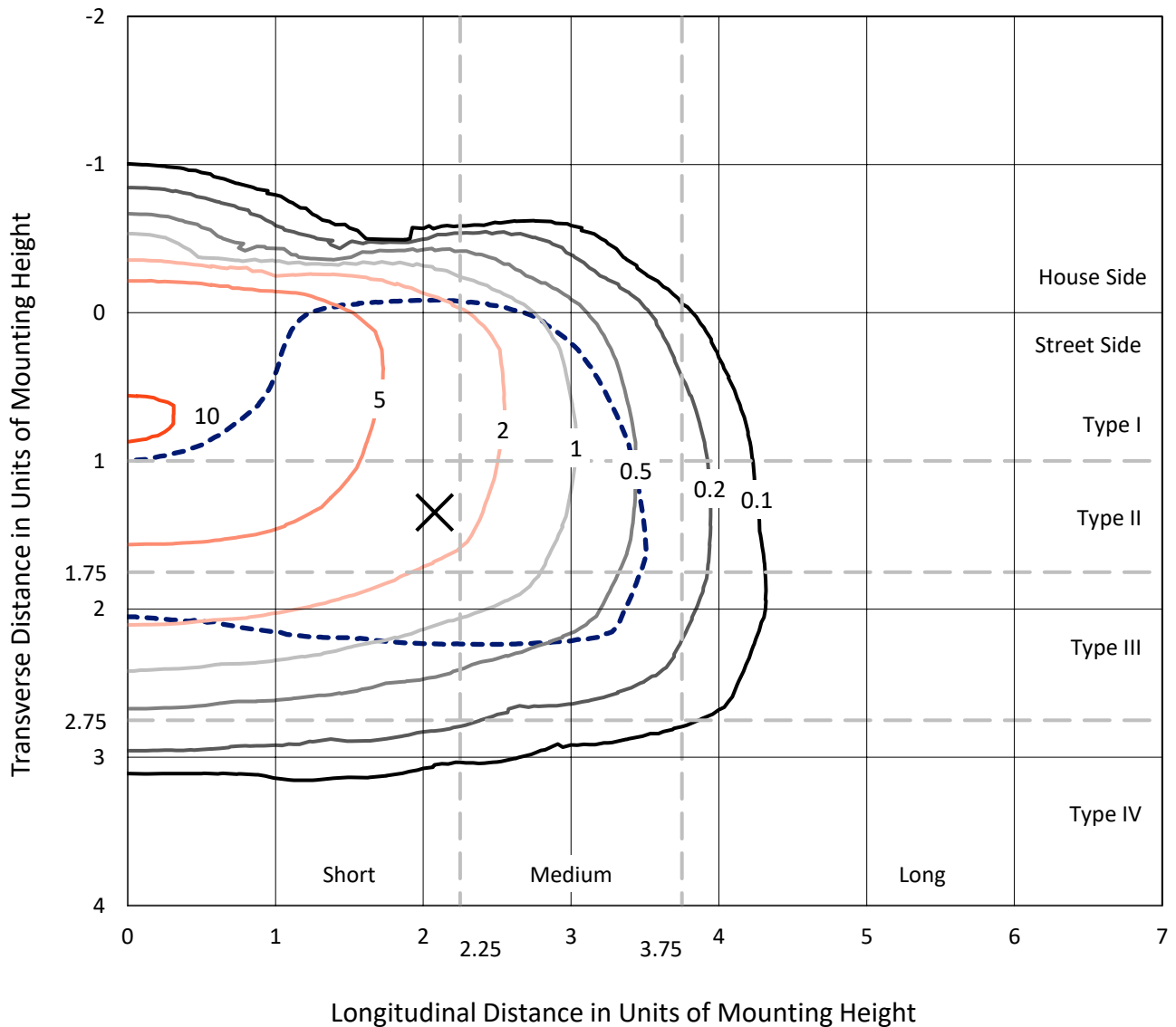
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

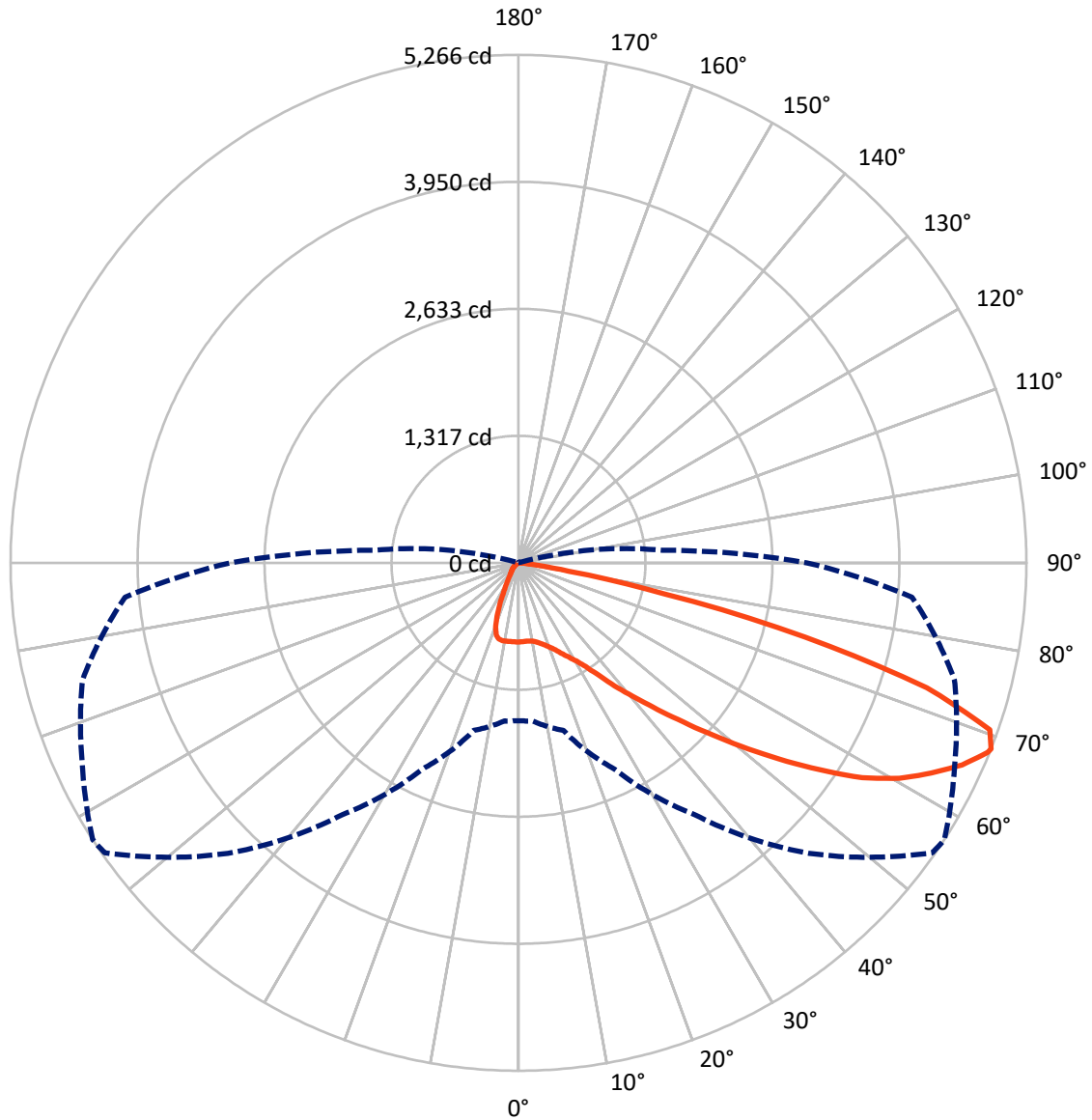
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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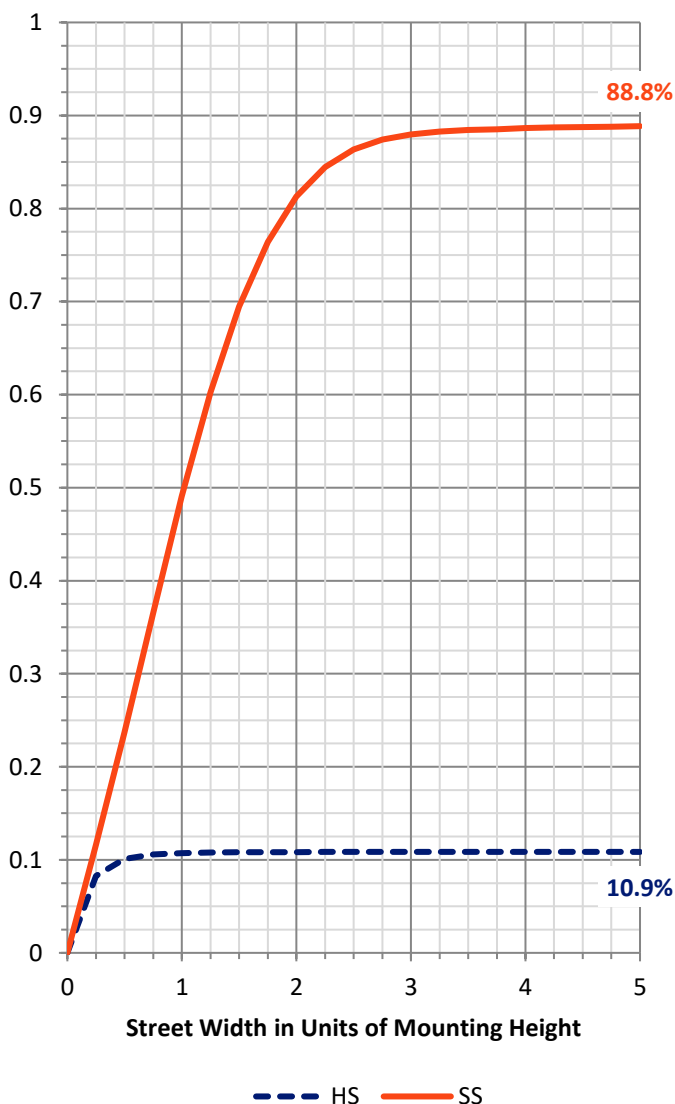
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.3	0.0	757.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	6148.7	0.0	6148.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	6906.0	0.0	6906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.1
10°-20°	212.8	3.1
20°-30°	367.1	5.3
30°-40°	633.6	9.2
40°-50°	1083.8	15.7
50°-60°	1734.0	25.1
60°-70°	2003.5	29.0
70°-80°	765.6	11.1
80°-90°	28.7	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°	6906.0	100.0
0°-180°	6906.0	100.0

Coefficient of Utilization



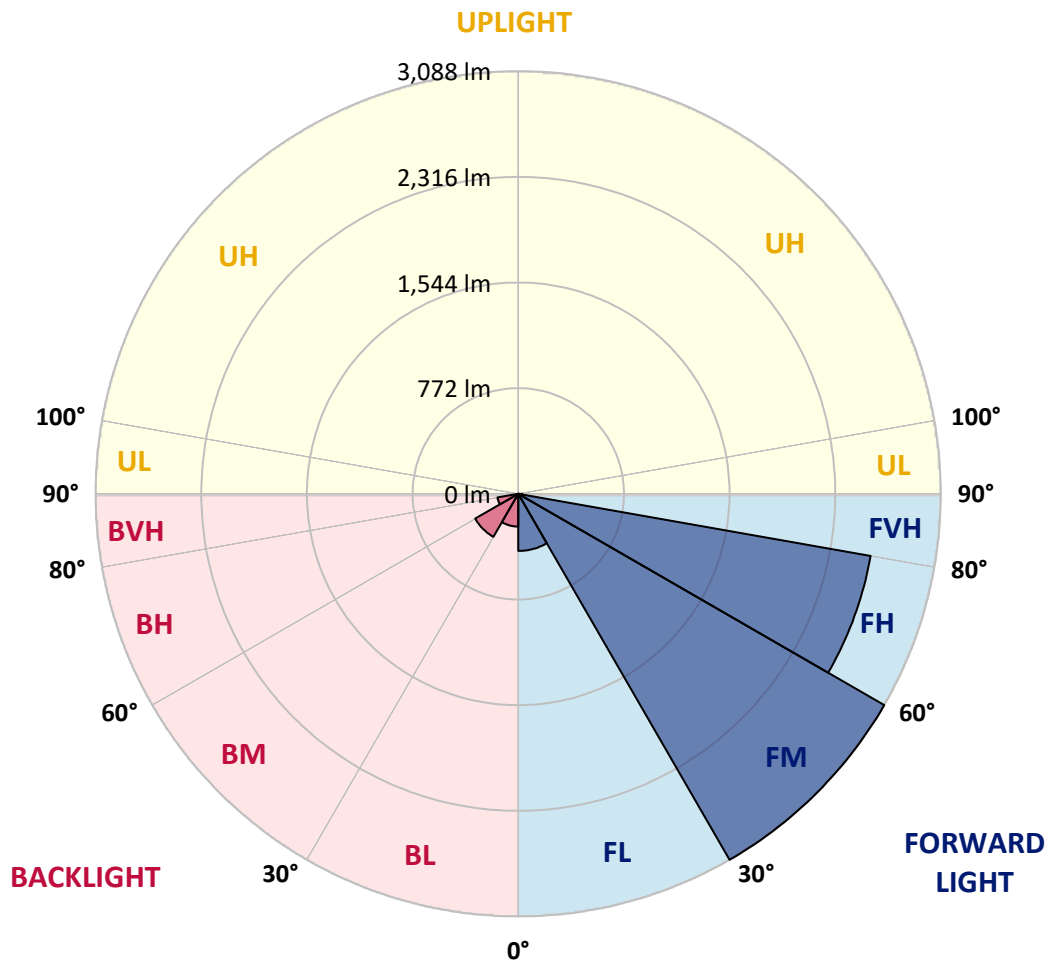
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.4	6.0			
FM (30°-60°)	3088.3	44.7			
FH (60°-80°)	2614.8	37.9			G2/5000
FVH (80°-90°)	28.2	0.4			G1/100
BL (0°-30°)	239.3	3.5	B1/500		
BM (30°-60°)	363.2	5.3	B1/1000		
BH (60°-80°)	154.2	2.2	B1/500		G1/500
BVH (80°-90°)	0.5	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°	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6
2.5°	801.3	804.9	807.6	809.2	811.1	815.4	816.7	818.7	819.6	819.6	821.9
5°	769.7	773.6	779.1	783.7	792.9	804.6	813.1	816.4	822.2	827.5	830.4
7.5°	740.3	744.9	751.4	762.2	777.8	796.8	814.4	819.0	830.4	841.5	847.1
10°	721.3	724.9	733.4	748.8	769.3	795.8	820.6	826.2	845.8	864.4	874.8
12.5°	714.8	718.1	726.9	744.2	769.7	800.7	835.0	843.1	871.9	899.0	913.7
15°	724.3	724.9	734.4	750.7	775.9	812.8	858.8	868.6	904.9	940.1	958.4
17.5°	760.9	757.9	762.8	770.0	789.9	828.8	884.0	898.7	947.0	988.5	1005.8
20°	852.3	852.3	841.2	821.6	821.9	853.6	917.9	934.6	993.7	1041.7	1057.4
22.5°	1008.7	1005.8	983.6	935.6	891.5	896.4	959.4	980.9	1049.9	1101.1	1106.3
25°	1196.8	1193.2	1158.9	1091.3	1014.9	965.6	1015.6	1040.4	1116.8	1162.2	1151.4
27.5°	1396.0	1393.1	1359.1	1275.2	1166.4	1076.0	1082.5	1106.0	1185.0	1229.8	1195.5
30°	1589.0	1590.0	1556.3	1470.1	1347.0	1216.7	1167.4	1181.1	1251.3	1296.7	1247.7
32.5°	1772.5	1773.8	1744.7	1648.4	1533.5	1380.3	1285.0	1281.4	1328.4	1373.1	1317.0
35°	1936.1	1939.4	1919.4	1844.7	1722.9	1562.5	1437.5	1429.0	1437.8	1488.4	1423.1
37.5°	2093.8	2095.8	2080.8	2017.7	1915.9	1762.7	1630.1	1618.0	1599.1	1638.0	1563.2
40°	2266.6	2261.7	2244.4	2187.2	2099.7	1983.8	1837.2	1816.3	1783.3	1817.9	1747.4
42.5°	2427.2	2421.7	2424.6	2360.0	2286.2	2211.1	2078.5	2042.6	2023.3	2063.1	1973.3
45°	2628.1	2625.1	2634.9	2578.7	2519.0	2464.5	2355.1	2315.9	2307.4	2354.1	2246.6
47.5°	2826.3	2833.5	2863.8	2840.0	2815.8	2767.8	2648.0	2630.3	2635.6	2692.1	2535.0
50°	2991.5	3000.0	3083.3	3110.7	3145.6	3117.6	2997.4	2986.6	3007.2	3058.1	2845.2
52.5°	3111.0	3128.3	3231.8	3358.2	3485.6	3504.5	3384.7	3374.9	3402.6	3410.5	3084.9
55°	3194.0	3209.3	3326.5	3557.7	3817.0	3898.7	3824.2	3786.3	3781.1	3703.7	3337.0
57.5°	3208.7	3207.0	3375.5	3686.7	4077.0	4287.6	4240.6	4203.3	4096.2	3974.7	3626.0
60°	3125.7	3135.2	3330.8	3731.5	4240.2	4581.8	4585.4	4537.1	4370.2	4238.3	3906.2
62.5°	2870.4	2908.9	3106.5	3614.2	4238.3	4700.3	4838.1	4801.2	4601.7	4454.1	4190.3
65°	2456.3	2470.0	2658.4	3212.6	3951.9	4650.7	5065.7	5052.0	4810.4	4663.8	4336.2
67.5°	1793.7	1764.0	1961.9	2529.8	3345.8	4361.4	5229.0	5246.3	4971.4	4706.9	4180.8
68°	1637.0	1645.8	1799.9	2360.9	3187.1	4259.2	5239.8	5266.2	4987.4	4678.8	4095.9
70°	975.7	992.7	1130.2	1625.6	2424.6	3680.8	5123.5	5183.9	4892.0	4389.1	3542.7
72.5°	249.2	269.4	399.4	727.5	1384.9	2593.4	4325.1	4427.3	4247.4	3560.7	2391.6
75°	102.5	107.8	142.7	239.7	515.9	1168.4	2850.8	3069.6	2944.5	2131.7	1080.9
77.5°	70.9	74.5	91.8	132.9	223.4	396.1	1397.6	1555.7	1401.5	727.5	235.8
80°	50.9	53.9	65.6	88.5	128.3	141.4	455.5	526.7	418.3	159.7	58.5
82.5°	30.4	32.7	49.0	63.0	78.0	67.6	113.3	128.7	121.1	79.4	26.1
85°	15.0	17.6	33.0	45.1	42.1	28.4	34.6	38.5	47.7	48.3	14.0
87.5°	1.0	2.0	19.3	27.1	11.8	6.5	10.1	12.4	17.0	23.8	5.9
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°	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6	820.6
2.5°	822.9	823.2	820.9	820.0	820.6	816.7	815.1	815.7	815.7	816.7	815.1
5°	831.1	831.1	827.1	821.9	819.0	811.5	806.6	805.3	804.3	803.6	802.3
7.5°	848.7	846.7	839.9	828.5	818.7	802.3	789.9	783.4	780.1	778.8	777.8
10°	877.1	873.5	862.1	840.9	818.3	789.3	762.2	742.9	726.9	720.4	716.4
12.5°	915.3	910.1	890.8	855.6	816.0	762.5	703.7	647.2	594.6	573.1	562.3
15°	959.4	951.9	921.5	868.0	802.7	702.1	574.4	475.5	402.6	375.2	363.4
17.5°	1004.1	994.3	948.3	875.8	762.5	577.0	403.0	304.3	255.7	242.6	238.1
20°	1049.2	1034.8	971.5	869.9	671.7	416.0	265.8	222.4	208.3	204.4	203.1
22.5°	1092.0	1069.8	992.4	847.1	531.9	279.2	210.3	196.6	192.0	189.7	189.1
25°	1129.2	1098.2	1010.7	776.5	376.5	210.9	189.4	184.8	178.9	174.7	175.0
27.5°	1164.1	1126.6	1021.8	660.3	251.1	180.3	175.4	169.2	158.4	152.2	152.2
30°	1206.3	1164.5	1029.9	508.1	184.8	159.4	155.4	146.0	131.3	123.1	123.1
32.5°	1269.6	1221.9	1024.7	356.6	153.2	140.1	130.9	117.9	101.9	94.0	93.7
35°	1366.6	1310.8	987.5	233.8	135.2	121.8	107.1	91.1	77.1	70.5	70.2
37.5°	1497.2	1429.6	903.9	167.2	121.1	104.8	87.2	69.6	59.1	54.9	54.5
40°	1666.7	1567.8	784.4	135.5	108.1	88.5	67.3	53.9	46.7	43.4	43.8
42.5°	1870.1	1715.7	641.0	116.9	95.4	72.8	52.6	42.5	37.9	35.6	34.9
45°	2096.1	1861.6	490.8	104.2	82.6	58.8	41.1	33.6	30.0	28.7	28.7
47.5°	2344.6	2003.7	359.2	93.1	68.9	45.4	33.0	27.4	24.5	23.5	23.2
50°	2570.3	2102.3	259.0	81.3	56.5	35.9	26.8	22.9	20.9	19.6	19.6
52.5°	2758.4	2133.3	190.7	68.6	45.7	28.7	22.2	19.6	17.6	16.7	16.7
55°	2923.9	2120.6	141.7	56.5	36.9	23.5	18.9	16.7	15.0	14.0	14.0
57.5°	3082.6	2079.5	105.8	46.0	29.7	18.9	16.0	14.0	12.4	11.8	11.8
60°	3212.3	2010.9	78.7	37.2	23.8	15.3	13.4	11.4	10.1	9.1	9.1
62.5°	3317.4	1935.1	57.8	30.7	18.9	12.1	10.4	9.5	7.5	6.5	6.5
65°	3318.1	1809.4	43.4	25.5	14.7	9.5	7.8	7.5	4.9	3.9	3.6
67.5°	3078.0	1559.9	33.3	21.9	11.4	7.2	5.9	6.2	2.6	1.6	1.3
68°	2990.9	1496.6	31.3	21.6	10.8	6.9	5.6	6.2	2.3	1.3	1.0
70°	2521.6	1190.6	25.1	20.9	9.5	5.2	4.6	6.2	2.0	1.0	0.7
72.5°	1612.8	691.0	18.6	16.7	7.2	3.9	2.9	5.6	2.0	0.7	0.3
75°	686.4	214.2	12.7	11.8	4.2	2.9	2.0	3.6	1.3	0.3	0.0
77.5°	144.7	48.3	7.5	7.2	2.9	2.0	1.3	1.0	0.3	0.0	0.0
80°	37.2	14.0	3.9	3.6	1.6	1.0	0.7	0.0	0.0	0.0	0.0
82.5°	11.8	5.6	2.3	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.0	0.3	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)