

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: P387098

Luminaire Tested: GAW-SA2D-750-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387098
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-750-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 11799 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

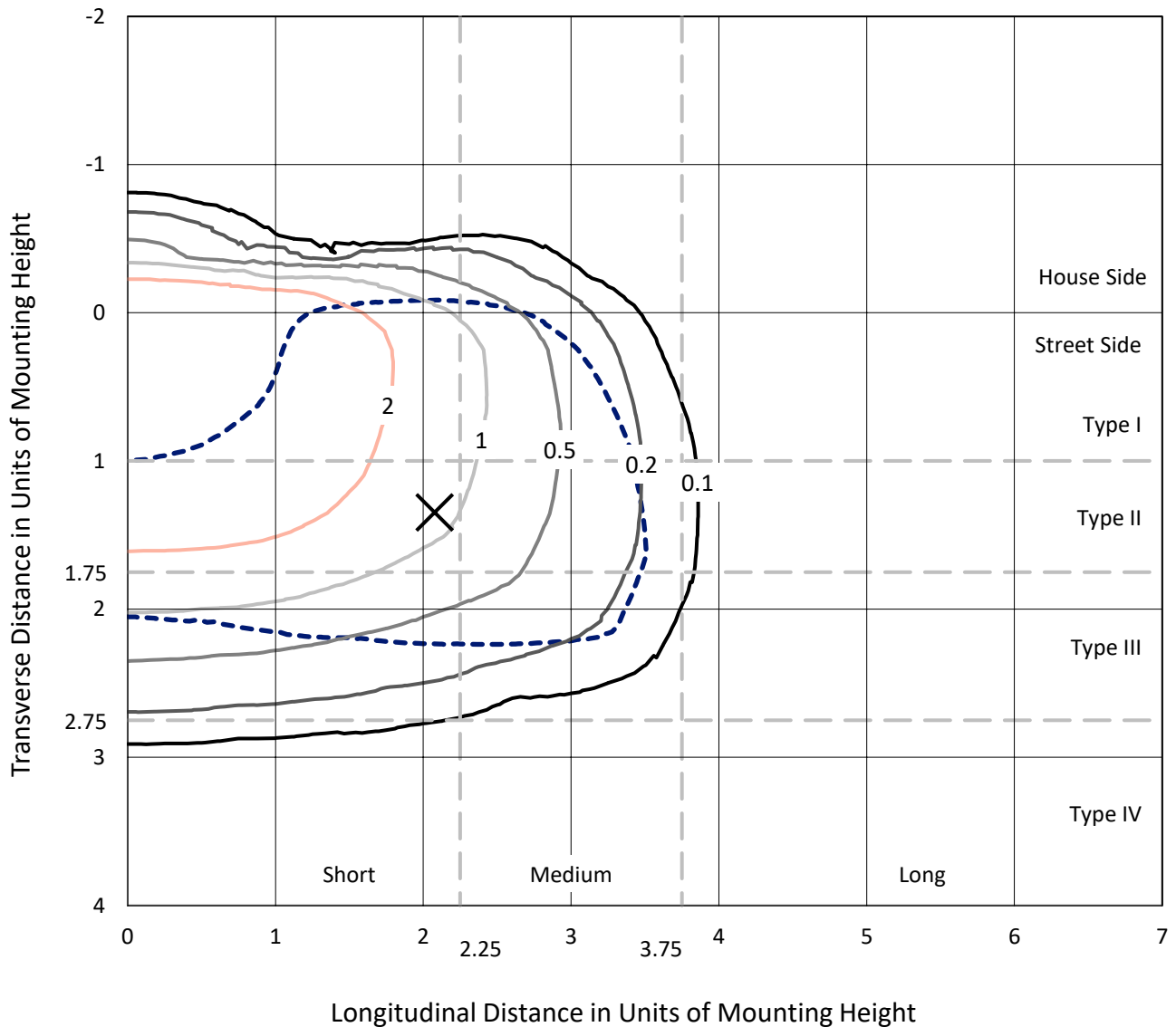
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

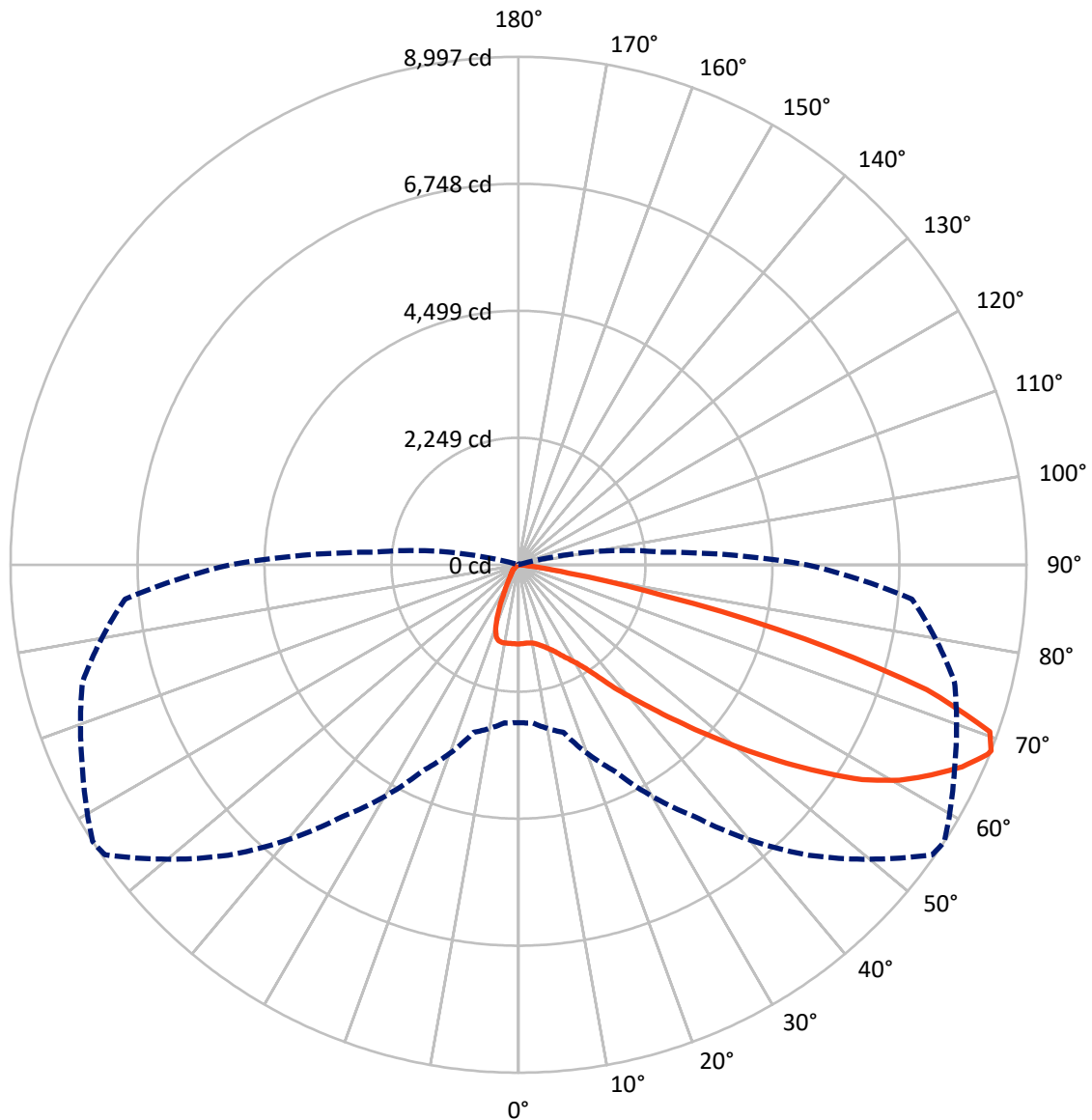
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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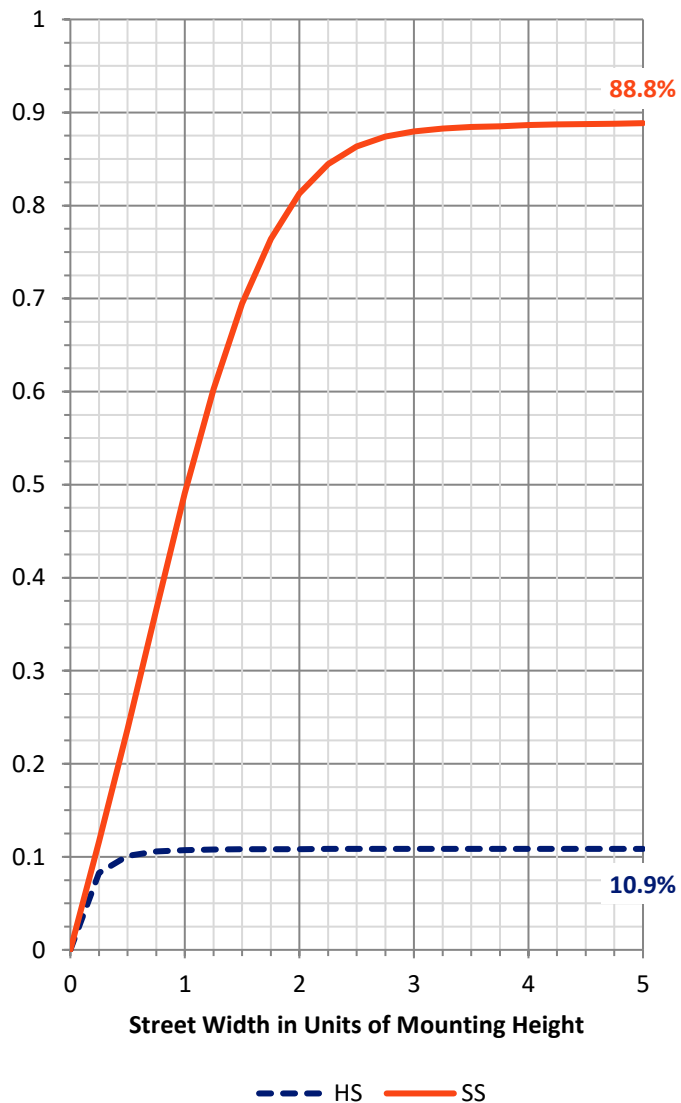
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1293.8	0.0	1293.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	10505.2	0.0	10505.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	11799.0	0.0	11799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	1.1
10°-20°	363.6	3.1
20°-30°	627.2	5.3
30°-40°	1082.6	9.2
40°-50°	1851.8	15.7
50°-60°	2962.6	25.1
60°-70°	3423.0	29.0
70°-80°	1308.0	11.1
80°-90°	49.0	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°	11799.0	100.0
0°-180°	11799.0	100.0

Coefficient of Utilization



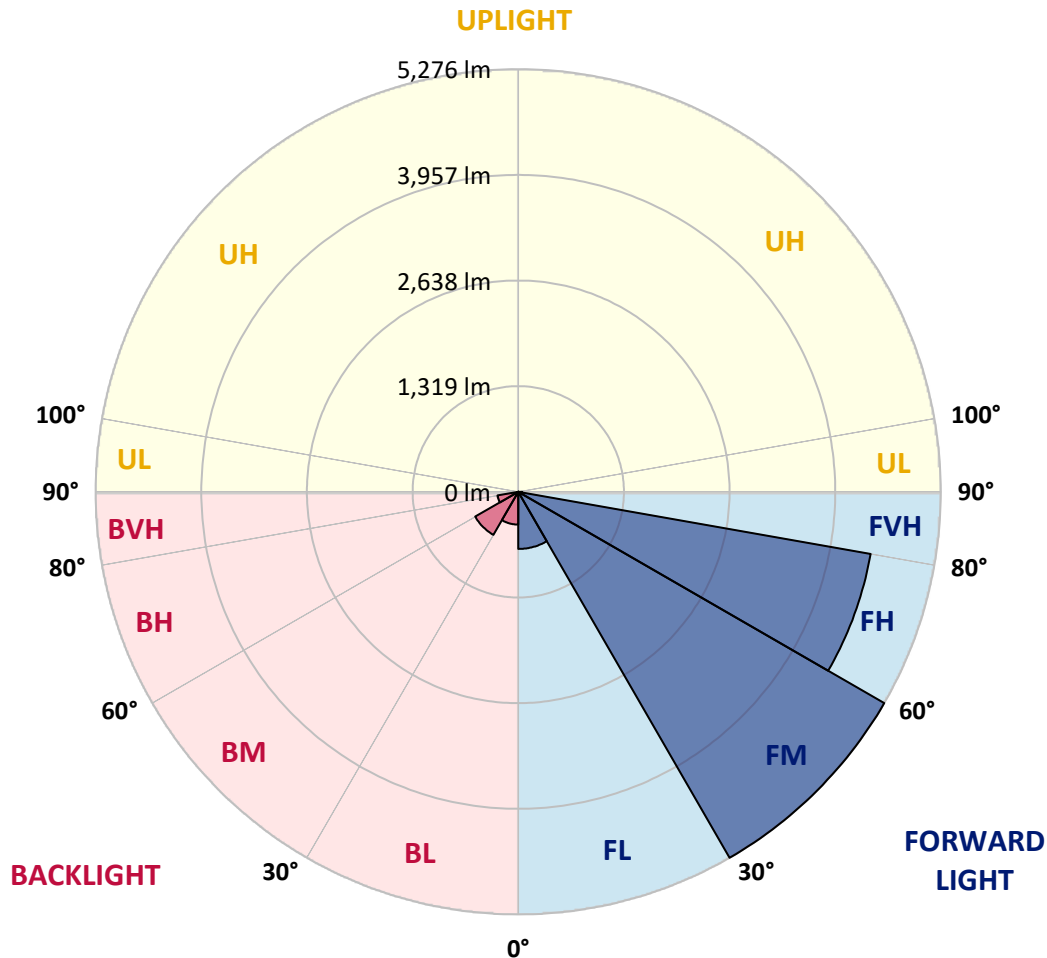
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.1	6.0			
FM (30°-60°)	5276.4	44.7			
FH (60°-80°)	4467.5	37.9			G2/5000
FVH (80°-90°)	48.1	0.4			G1/100
BL (0°-30°)	408.9	3.5	B1/500		
BM (30°-60°)	620.5	5.3	B1/1000		
BH (60°-80°)	263.5	2.2	B1/500		G1/500
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0
2.5°	1369.1	1375.3	1379.7	1382.5	1385.9	1393.1	1395.3	1398.7	1400.4	1400.4	1404.3
5°	1315.0	1321.7	1331.2	1339.0	1354.6	1374.7	1389.2	1394.8	1404.8	1413.7	1418.8
7.5°	1264.8	1272.6	1283.8	1302.2	1328.9	1361.3	1391.4	1399.2	1418.8	1437.7	1447.2
10°	1232.4	1238.6	1253.1	1279.3	1314.4	1359.6	1402.0	1411.5	1445.0	1476.8	1494.6
12.5°	1221.3	1226.8	1241.9	1271.5	1315.0	1368.0	1426.6	1440.5	1489.6	1535.9	1561.0
15°	1237.4	1238.6	1254.7	1282.6	1325.6	1388.6	1467.3	1484.0	1546.0	1606.2	1637.5
17.5°	1299.9	1294.9	1303.3	1315.6	1349.6	1416.0	1510.3	1535.4	1617.9	1688.8	1718.4
20°	1456.1	1456.1	1437.2	1403.7	1404.3	1458.4	1568.3	1596.7	1697.7	1779.7	1806.5
22.5°	1723.4	1718.4	1680.4	1598.4	1523.1	1531.5	1639.1	1676.0	1793.7	1881.3	1890.2
25°	2044.7	2038.6	1980.0	1864.5	1734.0	1649.7	1735.1	1777.5	1908.1	1985.6	1967.2
27.5°	2385.1	2380.1	2322.0	2178.6	1992.9	1838.3	1849.5	1889.6	2024.7	2101.1	2042.5
30°	2714.8	2716.5	2659.0	2511.7	2301.4	2078.8	1994.5	2018.0	2137.9	2215.5	2131.8
32.5°	3028.3	3030.6	2980.9	2816.3	2620.0	2358.3	2195.4	2189.2	2269.6	2346.0	2250.1
35°	3307.9	3313.4	3279.4	3151.6	2943.5	2669.6	2455.9	2441.4	2456.5	2543.0	2431.4
37.5°	3577.3	3580.7	3555.0	3447.3	3273.3	3011.6	2785.1	2764.5	2732.1	2798.5	2670.7
40°	3872.5	3864.1	3834.5	3736.9	3587.4	3389.3	3138.8	3103.1	3046.8	3105.9	2985.4
42.5°	4147.0	4137.5	4142.5	4032.0	3905.9	3777.6	3551.1	3489.7	3456.8	3524.9	3371.5
45°	4490.1	4485.1	4501.8	4405.8	4303.7	4210.6	4023.7	3956.7	3942.2	4022.0	3838.4
47.5°	4828.7	4841.0	4892.9	4852.2	4810.9	4728.9	4524.1	4494.0	4502.9	4599.4	4331.1
50°	5111.0	5125.5	5267.8	5314.7	5374.4	5326.4	5121.1	5102.7	5137.8	5224.8	4861.1
52.5°	5315.2	5344.8	5521.7	5737.6	5955.2	5987.5	5782.8	5766.0	5813.4	5826.8	5270.6
55°	5456.9	5483.2	5683.4	6078.4	6521.4	6660.9	6533.7	6469.0	6460.1	6327.8	5701.3
57.5°	5482.0	5479.3	5767.1	6298.8	6965.5	7325.4	7245.0	7181.4	6998.4	6790.9	6195.1
60°	5340.3	5356.5	5690.7	6375.3	7244.5	7828.1	7834.2	7751.6	7466.5	7241.1	6673.7
62.5°	4904.0	4969.9	5307.4	6175.0	7241.1	8030.6	8266.0	8203.0	7862.1	7609.9	7159.1
65°	4196.6	4220.0	4542.0	5488.7	6751.8	7945.8	8654.9	8631.5	8218.6	7968.1	7408.5
67.5°	3064.6	3013.8	3351.9	4322.1	5716.4	7451.5	8933.8	8963.4	8493.6	8041.7	7142.9
68°	2796.8	2811.9	3075.2	4033.7	5445.2	7276.8	8952.3	8997.4	8521.0	7993.8	6997.9
70°	1667.0	1696.1	1930.9	2777.3	4142.5	6288.8	8753.6	8856.8	8358.1	7498.9	6052.8
72.5°	425.7	460.3	682.3	1243.0	2366.1	4430.9	7389.5	7564.2	7256.8	6083.5	4086.1
75°	175.2	184.1	243.8	409.5	881.5	1996.2	4870.6	5244.4	5030.7	3642.0	1846.7
77.5°	121.1	127.2	156.8	227.1	381.6	676.7	2387.9	2657.9	2394.6	1243.0	402.8
80°	87.0	92.1	112.1	151.2	219.3	241.6	778.3	899.9	714.7	272.8	99.9
82.5°	51.9	55.8	83.7	107.7	133.3	115.5	193.6	219.8	207.0	135.6	44.6
85°	25.7	30.1	56.3	77.0	72.0	48.5	59.1	65.8	81.5	82.6	24.0
87.5°	1.7	3.3	32.9	46.3	20.1	11.2	17.3	21.2	29.0	40.7	10.0
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°	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0	1402.0
2.5°	1405.9	1406.5	1402.6	1400.9	1402.0	1395.3	1392.5	1393.7	1393.7	1395.3	1392.5
5°	1419.9	1419.9	1413.2	1404.3	1399.2	1386.4	1378.0	1375.8	1374.1	1373.0	1370.8
7.5°	1450.0	1446.7	1434.9	1415.4	1398.7	1370.8	1349.6	1338.4	1332.9	1330.6	1328.9
10°	1498.6	1492.4	1472.9	1436.6	1398.1	1348.5	1302.2	1269.2	1241.9	1230.8	1224.1
12.5°	1563.8	1554.9	1522.0	1461.7	1394.2	1302.7	1202.3	1105.8	1016.0	979.1	960.7
15°	1639.1	1626.3	1574.4	1482.9	1371.3	1199.5	981.4	812.3	687.9	641.0	621.0
17.5°	1715.6	1698.8	1620.2	1496.3	1302.7	985.8	688.5	520.0	436.8	414.5	406.7
20°	1792.6	1768.0	1659.8	1486.3	1147.6	710.8	454.1	379.9	355.9	349.3	347.0
22.5°	1865.7	1827.7	1695.5	1447.2	908.8	477.0	359.3	335.9	328.1	324.1	323.0
25°	1929.3	1876.3	1726.7	1326.7	643.3	360.4	323.6	315.8	305.7	298.5	299.0
27.5°	1989.0	1924.8	1745.7	1128.1	429.0	308.0	299.6	289.0	270.6	260.0	260.0
30°	2060.9	1989.5	1759.7	868.1	315.8	272.3	265.6	249.4	224.3	210.3	210.3
32.5°	2169.2	2087.7	1750.7	609.2	261.7	239.3	223.7	201.4	174.1	160.7	160.1
35°	2334.9	2239.5	1687.1	399.5	231.0	208.1	183.0	155.7	131.7	120.5	120.0
37.5°	2558.0	2442.5	1544.3	285.7	207.0	179.1	149.0	118.8	101.0	93.7	93.2
40°	2847.6	2678.5	1340.1	231.5	184.7	151.2	114.9	92.1	79.8	74.2	74.8
42.5°	3195.2	2931.3	1095.2	199.7	162.9	124.4	89.8	72.5	64.7	60.8	59.7
45°	3581.2	3180.7	838.5	178.0	141.2	100.4	70.3	57.5	51.3	49.1	49.1
47.5°	4005.8	3423.3	613.7	159.0	117.7	77.5	56.3	46.9	41.8	40.2	39.6
50°	4391.3	3591.8	442.4	138.9	96.5	61.4	45.7	39.1	35.7	33.5	33.5
52.5°	4712.7	3644.8	325.8	117.2	78.1	49.1	37.9	33.5	30.1	28.5	28.5
55°	4995.5	3623.1	242.1	96.5	63.0	40.2	32.4	28.5	25.7	24.0	24.0
57.5°	5266.7	3552.8	180.8	78.7	50.8	32.4	27.3	24.0	21.2	20.1	20.1
60°	5488.2	3435.6	134.5	63.6	40.7	26.2	22.9	19.5	17.3	15.6	15.6
62.5°	5667.8	3306.2	98.8	52.4	32.4	20.6	17.9	16.2	12.8	11.2	11.2
65°	5668.9	3091.4	74.2	43.5	25.1	16.2	13.4	12.8	8.4	6.7	6.1
67.5°	5258.9	2665.1	56.9	37.4	19.5	12.3	10.0	10.6	4.5	2.8	2.2
68°	5109.9	2556.9	53.6	36.8	18.4	11.7	9.5	10.6	3.9	2.2	1.7
70°	4308.2	2034.1	43.0	35.7	16.2	8.9	7.8	10.6	3.3	1.7	1.1
72.5°	2755.5	1180.5	31.8	28.5	12.3	6.7	5.0	9.5	3.3	1.1	0.6
75°	1172.7	366.0	21.8	20.1	7.3	5.0	3.3	6.1	2.2	0.6	0.0
77.5°	247.2	82.6	12.8	12.3	5.0	3.3	2.2	1.7	0.6	0.0	0.0
80°	63.6	24.0	6.7	6.1	2.8	1.7	1.1	0.0	0.0	0.0	0.0
82.5°	20.1	9.5	3.9	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	1.7	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)