

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: P386384

Luminaire Tested: GAW-SA2A-735-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7567.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

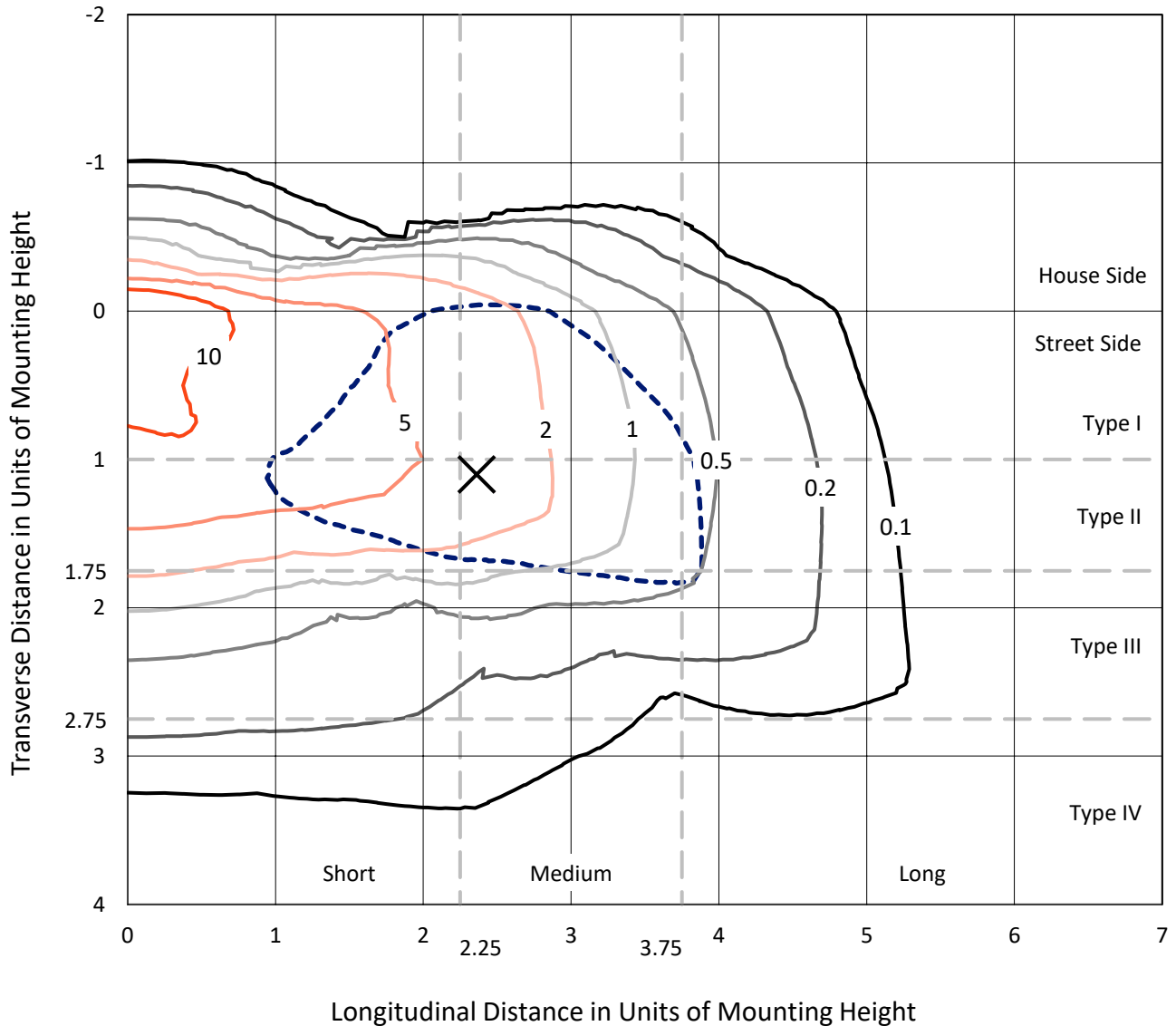
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

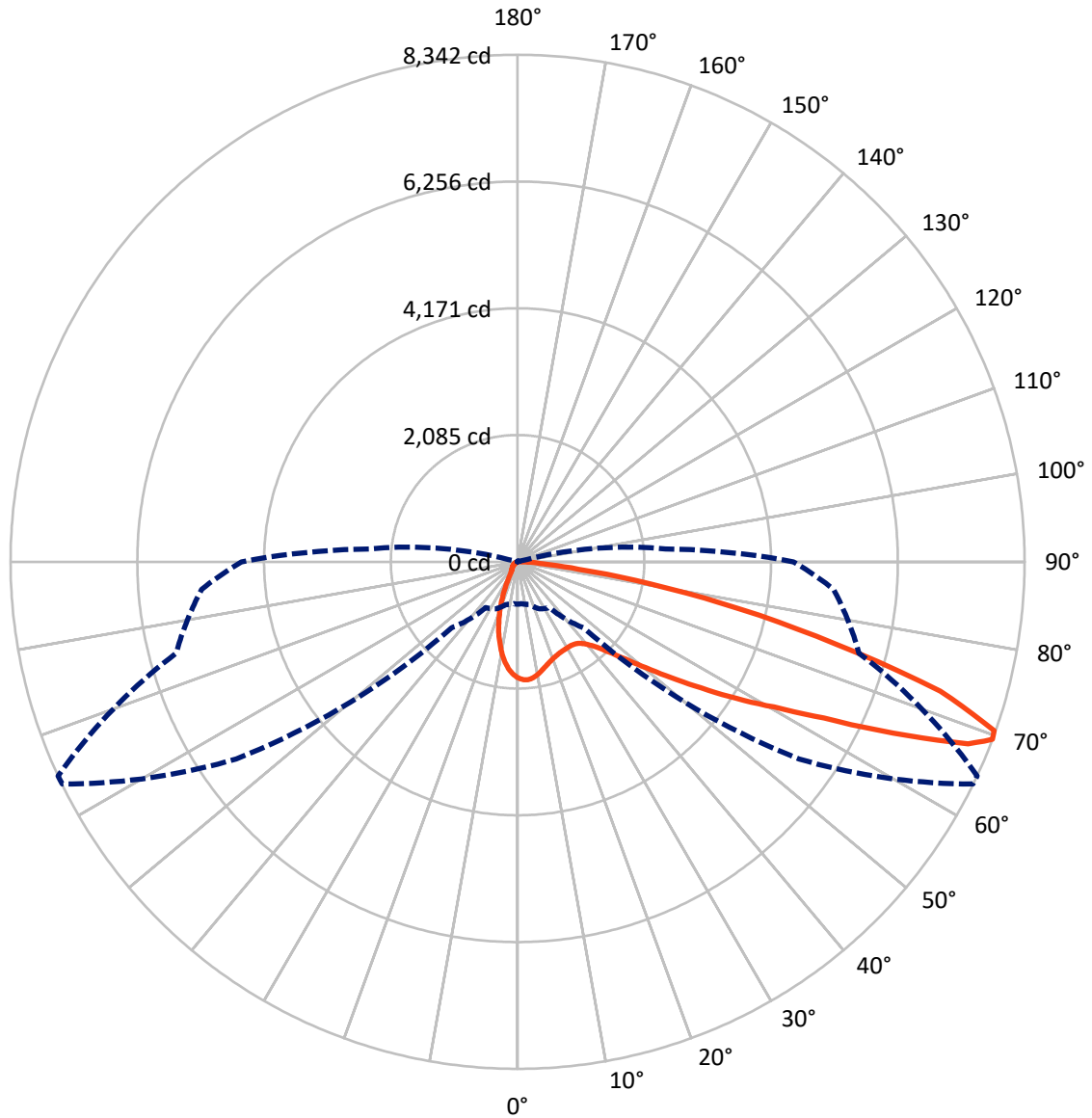
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.1	0.0	892.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6675.7	0.0	6675.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	7567.8	0.0	7567.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.1
10°-20°	350.1	4.6
20°-30°	484.8	6.4
30°-40°	676.0	8.9
40°-50°	1050.8	13.9
50°-60°	1686.9	22.3
60°-70°	1908.2	25.2
70°-80°	1120.7	14.8
80°-90°	130.4	1.7
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°	7567.8	100.0
0°-180°	7567.8	100.0

Coefficient of Utilization

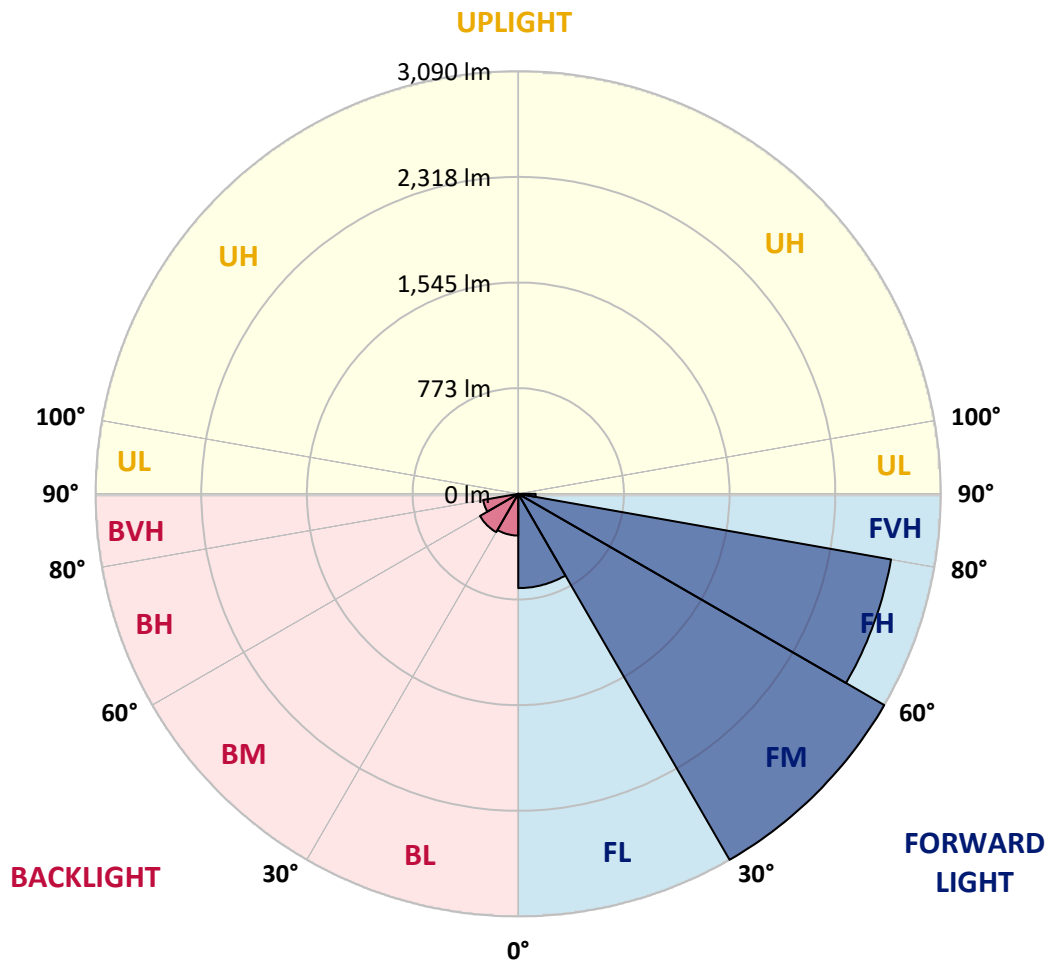


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.6	9.1			
FM (30°-60°)	3090.5	40.8			
FH (60°-80°)	2768.2	36.6			G2/5000
FVH (80°-90°)	127.4	1.7			G2/225
BL (0°-30°)	305.2	4.0	B1/500		
BM (30°-60°)	323.3	4.3	B1/1000		
BH (60°-80°)	260.6	3.4	B1/500		G1/500
BVH (80°-90°)	2.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1929.3	1924.5	1928.4	1936.7	1940.9	1940.9	1944.1	1940.2	1941.5	1932.2	1918.8
5°	1808.6	1801.3	1811.8	1835.2	1864.0	1888.7	1925.2	1944.5	1946.3	1946.6	1930.9
7.5°	1678.6	1671.9	1687.6	1715.1	1752.3	1798.1	1861.8	1917.5	1920.7	1950.8	1939.3
10°	1572.9	1568.1	1586.4	1615.9	1659.4	1710.6	1788.8	1866.3	1875.6	1942.2	1938.0
12.5°	1489.0	1485.2	1502.5	1536.5	1580.9	1637.6	1719.3	1809.3	1821.8	1922.7	1931.6
15°	1427.9	1427.2	1441.7	1474.3	1523.6	1576.5	1660.0	1756.5	1770.9	1901.5	1930.6
17.5°	1395.8	1396.8	1407.4	1435.2	1477.5	1530.0	1610.1	1712.0	1727.6	1882.6	1935.4
20°	1392.7	1393.6	1399.4	1415.1	1449.3	1495.8	1569.4	1674.5	1690.8	1868.5	1943.1
22.5°	1420.8	1420.2	1421.8	1420.2	1439.4	1474.7	1542.5	1645.6	1664.5	1859.2	1949.2
25°	1474.9	1474.0	1473.3	1461.5	1448.7	1467.6	1531.3	1629.3	1647.2	1852.5	1952.7
27.5°	1550.2	1549.5	1548.6	1529.1	1490.6	1478.8	1532.6	1623.2	1638.3	1847.0	1952.1
30°	1649.2	1653.6	1652.4	1625.2	1565.2	1513.1	1546.1	1620.0	1633.1	1836.5	1945.4
32.5°	1765.4	1774.3	1781.4	1752.3	1677.4	1580.9	1577.1	1623.6	1633.1	1828.5	1933.2
35°	1886.1	1897.7	1923.6	1913.4	1814.7	1683.1	1630.6	1644.7	1652.7	1832.9	1927.4
37.5°	2004.9	2018.7	2075.0	2104.8	1994.7	1818.2	1713.8	1696.8	1701.1	1860.2	1933.8
40°	2142.9	2163.8	2249.3	2297.3	2209.5	1999.1	1838.4	1786.5	1788.1	1920.0	1963.6
42.5°	2324.2	2345.7	2438.2	2513.4	2451.6	2227.8	2007.5	1923.6	1922.0	2032.2	2033.8
45°	2545.2	2567.6	2663.3	2746.9	2719.1	2498.7	2223.9	2123.7	2121.8	2208.9	2166.6
47.5°	2795.5	2817.6	2903.2	2989.3	3019.4	2815.1	2499.6	2396.9	2392.4	2454.5	2371.9
50°	3010.5	3024.8	3103.7	3219.6	3355.3	3203.9	2842.6	2743.7	2738.9	2780.8	2673.2
52.5°	3088.5	3096.9	3176.9	3339.3	3678.1	3730.3	3293.2	3165.8	3162.2	3180.5	3074.4
55°	2930.3	2945.5	3043.7	3284.6	3852.9	4325.3	3861.9	3688.3	3661.8	3622.4	3494.0
57.5°	2499.4	2523.4	2629.1	2949.3	3771.3	4797.3	4697.7	4279.5	4240.4	3999.7	3835.0
60°	1872.7	1902.2	1989.9	2335.4	3335.5	4965.4	5611.0	4938.2	4850.1	4300.0	4148.6
62.5°	1285.1	1299.8	1359.4	1584.5	2456.4	4690.0	6375.0	5820.4	5659.7	4626.6	4487.7
65°	981.5	986.6	1011.0	1088.5	1462.8	3809.7	6678.9	6984.4	6790.0	5017.3	4839.6
67.5°	791.0	786.8	820.4	931.2	979.6	2324.2	6324.5	8085.6	7994.7	5539.6	5193.7
69°	697.4	691.7	726.0	854.7	920.0	1536.5	5653.9	8335.8	8341.5	5815.3	5218.1
70°	627.6	631.5	665.5	809.2	899.8	1206.0	5013.5	8272.0	8317.5	5918.4	5072.1
72.5°	419.2	429.4	497.6	671.9	865.3	912.6	3027.1	7098.4	7273.3	5686.2	4351.6
75°	236.4	244.1	325.0	506.6	815.3	869.1	1598.8	5229.6	5398.7	4755.0	3355.6
77.5°	115.9	120.1	183.8	326.9	681.7	828.1	906.9	3552.2	3745.4	3103.7	1898.0
80°	49.0	51.2	91.9	201.8	487.4	790.3	673.5	2186.2	2210.2	1215.9	505.7
82.5°	18.9	19.5	38.7	125.9	309.6	616.1	563.3	1036.5	1011.6	228.9	115.3
85°	2.3	2.5	14.1	75.5	172.3	317.0	457.6	446.7	413.4	45.5	59.3
87.5°	0.0	0.0	0.9	23.0	51.2	148.6	237.9	185.4	167.1	14.7	30.7
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°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1907.6	1904.3	1887.1	1862.1	1838.4	1809.0	1780.8	1763.8	1750.4	1741.4	1752.0
5°	1912.7	1898.6	1846.1	1778.8	1712.9	1638.6	1569.4	1510.8	1487.8	1462.2	1473.7
7.5°	1911.1	1884.5	1790.0	1670.3	1549.2	1424.0	1305.6	1214.3	1166.9	1120.5	1132.3
10°	1903.1	1858.3	1715.1	1537.7	1356.5	1176.5	1008.3	880.6	809.2	744.6	753.8
12.5°	1885.5	1823.1	1626.7	1386.0	1143.5	906.2	709.3	545.7	458.0	419.2	423.9
15°	1874.9	1788.8	1533.3	1232.2	916.2	631.2	433.6	322.5	282.5	269.6	271.2
17.5°	1869.8	1755.8	1436.5	1056.4	683.7	401.9	280.2	247.2	238.6	236.4	237.0
20°	1864.7	1722.5	1336.9	882.6	471.0	270.3	230.2	220.7	217.5	214.6	215.2
22.5°	1856.1	1690.4	1229.9	706.4	317.7	219.3	207.5	198.2	191.4	188.0	188.6
25°	1845.4	1656.8	1120.8	526.2	231.8	195.7	184.4	171.3	163.4	156.9	157.3
27.5°	1828.5	1615.6	1008.1	383.0	194.7	175.2	160.1	145.7	132.3	124.8	124.8
30°	1804.8	1568.8	882.8	274.1	174.5	155.0	136.8	118.8	104.4	97.7	97.0
32.5°	1778.6	1520.1	756.4	207.8	158.5	136.1	115.3	96.4	83.6	78.2	77.8
35°	1756.1	1467.6	630.2	174.2	142.5	117.8	95.1	79.1	68.9	64.3	64.1
37.5°	1741.7	1415.1	507.3	155.7	128.1	100.9	79.8	65.3	58.0	54.5	54.1
40°	1739.5	1376.0	394.8	141.6	114.6	85.9	66.6	55.4	48.7	44.8	44.5
42.5°	1768.6	1353.6	303.0	129.7	100.9	72.7	56.6	47.4	40.4	36.5	36.2
45°	1845.2	1360.6	233.2	119.1	87.1	61.4	48.0	39.4	33.0	30.1	29.5
47.5°	1984.8	1409.3	185.4	108.6	73.9	52.2	41.0	32.7	27.2	24.3	24.0
50°	2233.2	1523.6	155.0	97.0	61.8	44.5	33.9	26.6	22.1	19.5	19.3
52.5°	2563.0	1727.3	138.4	85.9	51.2	37.8	27.9	21.1	17.3	15.4	15.0
55°	2926.9	1973.9	127.5	73.6	42.0	31.4	22.1	16.6	13.4	11.8	11.2
57.5°	3282.0	2187.5	117.2	61.8	34.9	25.6	17.6	13.2	10.5	8.9	8.6
60°	3608.3	2383.7	105.4	49.6	28.5	20.2	13.8	10.2	8.4	6.8	6.8
62.5°	3957.7	2535.5	89.1	38.7	23.4	15.4	11.2	9.3	6.8	5.7	5.4
65°	4327.9	2648.2	69.8	30.1	18.2	11.6	9.3	9.6	5.4	4.1	3.9
67.5°	4601.3	2625.9	51.6	23.7	14.1	8.9	8.9	10.2	4.8	3.2	2.9
69°	4541.1	2443.6	43.2	20.5	12.2	7.7	8.4	10.2	4.5	2.9	2.5
70°	4366.6	2241.9	38.1	18.2	10.9	7.0	8.0	10.0	4.1	2.9	2.5
72.5°	3636.5	1688.6	29.8	13.8	8.6	5.7	6.8	8.6	4.1	2.9	2.3
75°	2735.3	1080.8	22.7	10.0	6.4	4.5	5.2	6.4	4.1	2.5	2.3
77.5°	1488.4	389.8	16.3	6.8	4.5	3.5	3.5	4.8	3.9	1.9	1.3
80°	382.7	98.0	10.2	4.5	3.5	2.5	2.3	3.2	2.3	0.3	0.0
82.5°	94.5	22.1	5.4	3.2	2.5	0.9	0.9	1.6	0.9	0.0	0.0
85°	51.9	10.9	3.5	2.3	1.3	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	26.6	3.2	0.9	0.7	0.3	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)