

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-740-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-740-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 8056 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

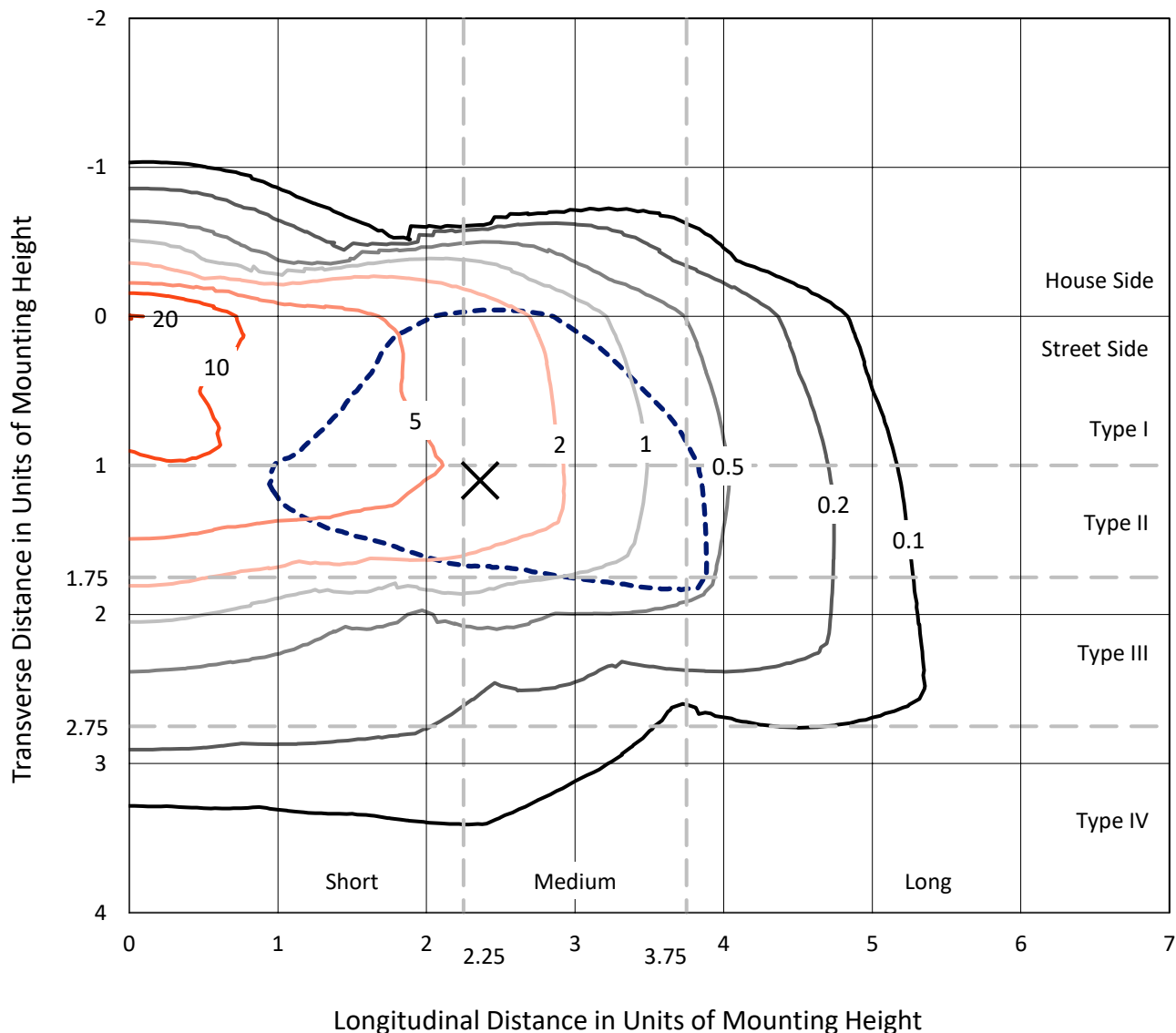
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

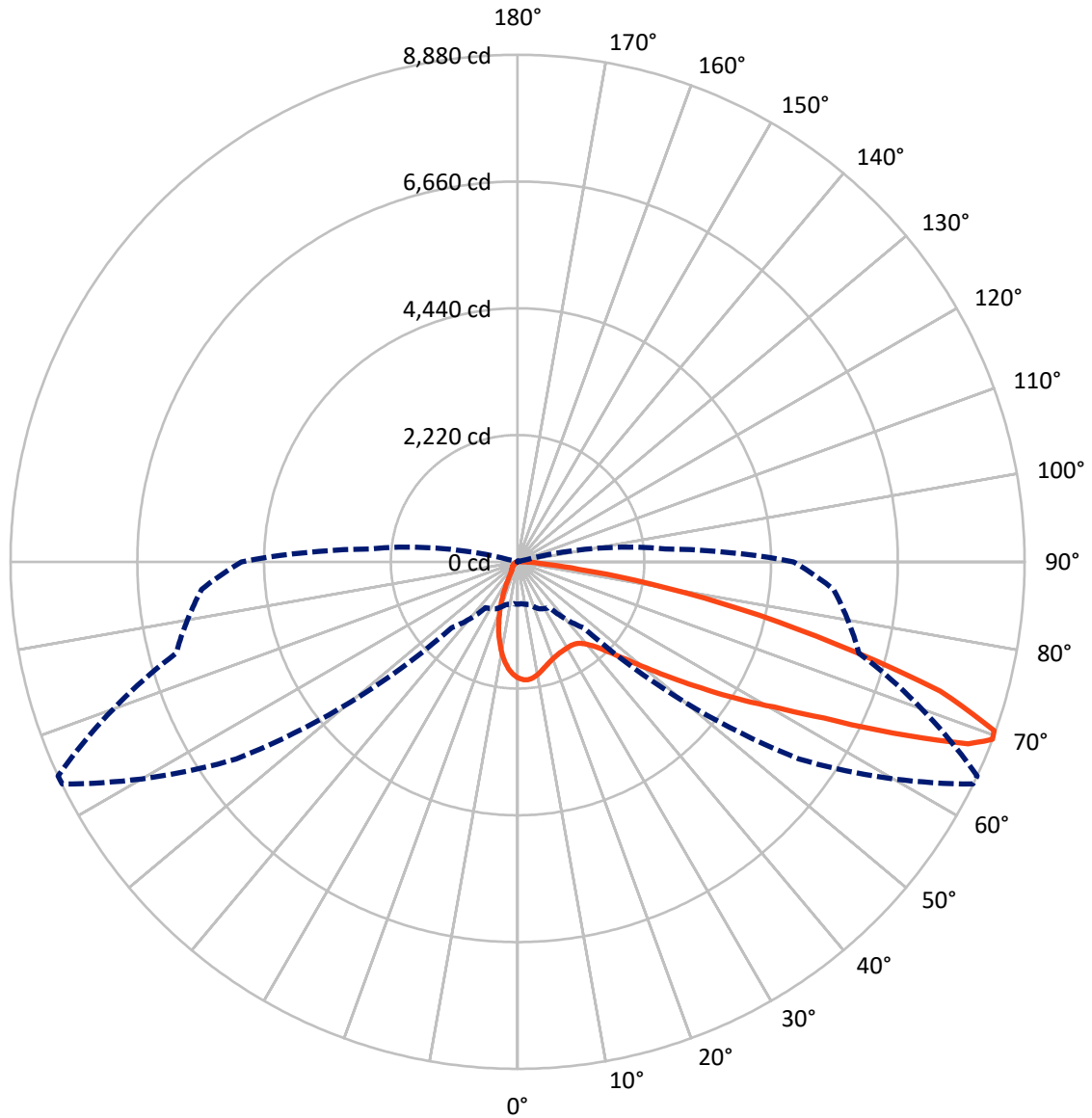
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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	949.6	0.0	949.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7106.4	0.0	7106.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	8056.0	0.0	8056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	2.1
10°-20°	372.6	4.6
20°-30°	516.1	6.4
30°-40°	719.6	8.9
40°-50°	1118.6	13.9
50°-60°	1795.7	22.3
60°-70°	2031.3	25.2
70°-80°	1193.0	14.8
80°-90°	138.8	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°	8056.0	100.0
0°-180°	8056.0	100.0

Coefficient of Utilization

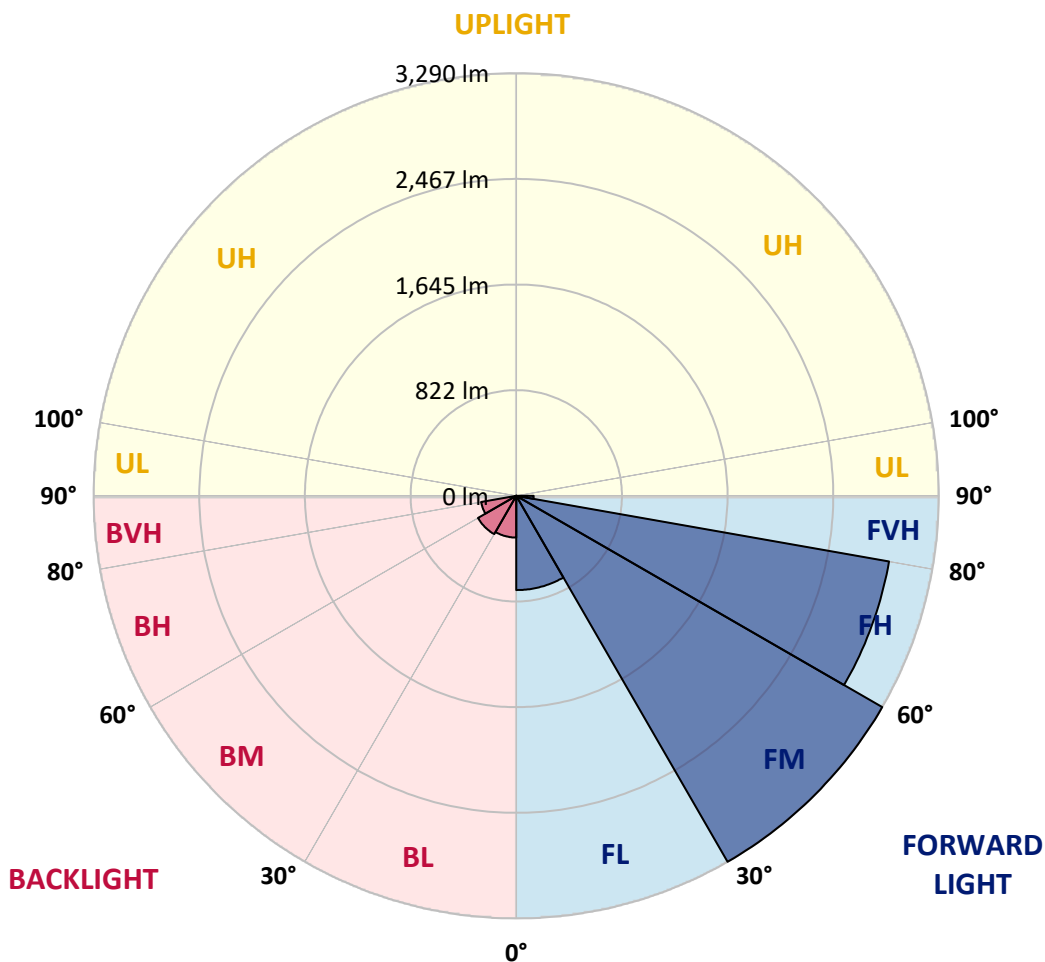


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.1	9.1			
FM (30°-60°)	3289.8	40.8			
FH (60°-80°)	2946.8	36.6			G2/5000
FVH (80°-90°)	135.7	1.7			G2/225
BL (0°-30°)	324.9	4.0	B1/500		
BM (30°-60°)	344.1	4.3	B1/1000		
BH (60°-80°)	277.5	3.4	B1/500		G1/500
BVH (80°-90°)	3.1	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°	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8
2.5°	2053.8	2048.7	2052.8	2061.7	2066.1	2066.1	2069.5	2065.4	2066.8	2056.9	2042.6
5°	1925.3	1917.5	1928.7	1953.6	1984.3	2010.5	2049.4	2069.9	2071.9	2072.2	2055.5
7.5°	1786.9	1779.8	1796.5	1825.8	1865.3	1914.1	1981.9	2041.2	2044.6	2076.7	2064.4
10°	1674.4	1669.3	1688.7	1720.1	1766.5	1821.0	1904.2	1986.7	1996.6	2067.5	2063.0
12.5°	1585.1	1581.0	1599.4	1635.6	1682.9	1743.3	1830.2	1926.0	1939.3	2046.7	2056.2
15°	1520.0	1519.3	1534.7	1569.4	1621.9	1678.2	1767.1	1869.8	1885.1	2024.2	2055.2
17.5°	1485.9	1486.9	1498.2	1527.8	1572.8	1628.7	1714.0	1822.4	1839.1	2004.1	2060.3
20°	1482.5	1483.5	1489.7	1506.4	1542.8	1592.3	1670.7	1782.5	1799.9	1989.1	2068.5
22.5°	1512.5	1511.8	1513.5	1511.8	1532.3	1569.8	1642.0	1751.8	1771.9	1979.2	2075.0
25°	1570.1	1569.1	1568.4	1555.8	1542.2	1562.3	1630.1	1734.4	1753.5	1972.0	2078.7
27.5°	1650.2	1649.5	1648.5	1627.7	1586.8	1574.2	1631.5	1727.9	1744.0	1966.2	2078.0
30°	1755.6	1760.3	1759.0	1730.0	1666.2	1610.7	1645.8	1724.5	1738.5	1955.0	2070.9
32.5°	1879.3	1888.8	1896.3	1865.3	1785.6	1682.9	1678.9	1728.3	1738.5	1946.5	2057.9
35°	2007.8	2020.1	2047.7	2036.8	1931.8	1791.7	1735.8	1750.8	1759.3	1951.2	2051.8
37.5°	2134.3	2148.9	2208.9	2240.6	2123.4	1935.5	1824.4	1806.3	1810.8	1980.2	2058.6
40°	2281.2	2303.4	2394.4	2445.5	2352.1	2128.1	1957.0	1901.8	1903.5	2043.9	2090.3
42.5°	2474.1	2497.0	2595.5	2675.6	2609.8	2371.5	2137.0	2047.7	2046.0	2163.3	2165.0
45°	2709.4	2733.2	2835.1	2924.1	2894.5	2659.9	2367.4	2260.7	2258.7	2351.4	2306.4
47.5°	2975.9	2999.4	3090.5	3182.2	3214.2	2996.7	2660.9	2551.5	2546.8	2612.9	2524.9
50°	3204.7	3220.0	3303.9	3427.3	3571.8	3410.6	3026.0	2920.7	2915.6	2960.2	2845.7
52.5°	3287.8	3296.7	3381.9	3554.7	3915.4	3971.0	3505.7	3370.0	3366.2	3385.7	3272.8
55°	3119.4	3135.5	3240.1	3496.5	4101.5	4604.3	4111.1	3926.3	3898.0	3856.1	3719.4
57.5°	2660.6	2686.2	2798.7	3139.6	4014.6	5106.8	5000.8	4555.6	4514.0	4257.7	4082.4
60°	1993.5	2024.9	2118.3	2486.1	3550.7	5285.8	5973.0	5256.8	5163.0	4577.4	4416.2
62.5°	1368.0	1383.7	1447.1	1686.7	2614.9	4992.6	6786.3	6195.9	6024.8	4925.1	4777.2
65°	1044.8	1050.3	1076.2	1158.7	1557.2	4055.5	7109.8	7435.0	7228.1	5341.0	5151.8
67.5°	842.0	837.6	873.3	991.3	1042.8	2474.1	6732.5	8607.3	8510.5	5897.0	5528.8
69°	742.4	736.3	772.8	909.8	979.4	1635.6	6018.7	8873.6	8879.7	6190.5	5554.7
70°	668.1	672.2	708.4	861.4	957.9	1283.8	5336.9	8805.7	8854.1	6300.2	5399.3
72.5°	446.2	457.1	529.7	715.2	921.1	971.5	3222.4	7556.4	7742.5	6053.1	4632.3
75°	251.6	259.8	346.0	539.3	867.9	925.2	1702.0	5567.0	5747.0	5061.8	3572.1
77.5°	123.4	127.8	195.7	348.0	725.7	881.5	965.4	3781.4	3987.0	3303.9	2020.4
80°	52.2	54.5	97.8	214.8	518.8	841.3	716.9	2327.2	2352.8	1294.3	538.3
82.5°	20.1	20.8	41.2	134.0	329.6	655.9	599.6	1103.4	1076.9	243.7	122.7
85°	2.4	2.7	15.0	80.4	183.4	337.5	487.1	475.5	440.1	48.4	63.1
87.5°	0.0	0.0	1.0	24.5	54.5	158.2	253.3	197.4	177.9	15.7	32.7
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°	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8	2035.8
2.5°	2030.7	2027.2	2008.8	1982.2	1957.0	1925.7	1895.7	1877.6	1863.3	1853.7	1865.0
5°	2036.1	2021.1	1965.2	1893.6	1823.4	1744.3	1670.7	1608.3	1583.8	1556.5	1568.8
7.5°	2034.4	2006.1	1905.5	1778.1	1649.2	1515.9	1389.8	1292.6	1242.2	1192.8	1205.4
10°	2025.9	1978.2	1825.8	1636.9	1444.0	1252.4	1073.4	937.4	861.4	792.6	802.4
12.5°	2007.1	1940.7	1731.7	1475.4	1217.3	964.7	755.1	580.9	487.5	446.2	451.3
15°	1995.9	1904.2	1632.2	1311.7	975.3	671.9	461.6	343.3	300.7	287.0	288.7
17.5°	1990.4	1869.1	1529.2	1124.6	727.8	427.8	298.3	263.2	254.0	251.6	252.3
20°	1985.0	1833.6	1423.2	939.5	501.4	287.7	245.1	234.9	231.5	228.4	229.1
22.5°	1975.8	1799.5	1309.3	752.0	338.2	233.5	220.9	211.0	203.8	200.1	200.8
25°	1964.5	1763.7	1193.1	560.1	246.8	208.3	196.3	182.4	173.9	167.0	167.4
27.5°	1946.5	1719.8	1073.1	407.7	207.3	186.5	170.4	155.1	140.8	132.9	132.9
30°	1921.2	1670.0	939.8	291.8	185.8	165.0	145.6	126.5	111.1	104.0	103.3
32.5°	1893.3	1618.2	805.2	221.2	168.7	144.9	122.7	102.6	89.0	83.2	82.8
35°	1869.4	1562.3	670.9	185.4	151.7	125.4	101.2	84.2	73.3	68.5	68.2
37.5°	1854.1	1506.4	540.0	165.7	136.4	107.4	84.9	69.5	61.7	58.0	57.6
40°	1851.7	1464.8	420.3	150.7	122.0	91.4	70.9	59.0	51.8	47.7	47.4
42.5°	1882.7	1440.9	322.5	138.1	107.4	77.4	60.3	50.5	43.0	38.9	38.5
45°	1964.2	1448.4	248.2	126.8	92.7	65.4	51.1	41.9	35.1	32.0	31.4
47.5°	2112.8	1500.2	197.4	115.6	78.7	55.6	43.6	34.8	29.0	25.9	25.6
50°	2377.3	1621.9	165.0	103.3	65.8	47.4	36.1	28.3	23.5	20.8	20.5
52.5°	2728.4	1838.7	147.3	91.4	54.5	40.2	29.7	22.5	18.4	16.4	16.0
55°	3115.7	2101.2	135.7	78.4	44.7	33.4	23.5	17.7	14.3	12.6	11.9
57.5°	3493.7	2328.6	124.8	65.8	37.2	27.3	18.7	14.0	11.2	9.5	9.2
60°	3841.1	2537.5	112.2	52.8	30.3	21.5	14.7	10.9	8.9	7.2	7.2
62.5°	4213.0	2699.1	94.8	41.2	24.9	16.4	11.9	9.9	7.2	6.1	5.8
65°	4607.1	2819.1	74.3	32.0	19.4	12.3	9.9	10.2	5.8	4.4	4.1
67.5°	4898.2	2795.3	54.9	25.2	15.0	9.5	9.5	10.9	5.1	3.4	3.1
69°	4834.1	2601.3	46.0	21.8	13.0	8.2	8.9	10.9	4.8	3.1	2.7
70°	4648.3	2386.5	40.6	19.4	11.6	7.5	8.5	10.6	4.4	3.1	2.7
72.5°	3871.1	1797.5	31.7	14.7	9.2	6.1	7.2	9.2	4.4	3.1	2.4
75°	2911.8	1150.5	24.2	10.6	6.8	4.8	5.5	6.8	4.4	2.7	2.4
77.5°	1584.4	414.9	17.4	7.2	4.8	3.7	3.7	5.1	4.1	2.0	1.4
80°	407.4	104.3	10.9	4.8	3.7	2.7	2.4	3.4	2.4	0.3	0.0
82.5°	100.6	23.5	5.8	3.4	2.7	1.0	1.0	1.7	1.0	0.0	0.0
85°	55.2	11.6	3.7	2.4	1.4	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	28.3	3.4	1.0	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)