

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: P386612

Luminaire Tested: GAW-SA2B-735-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9093.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

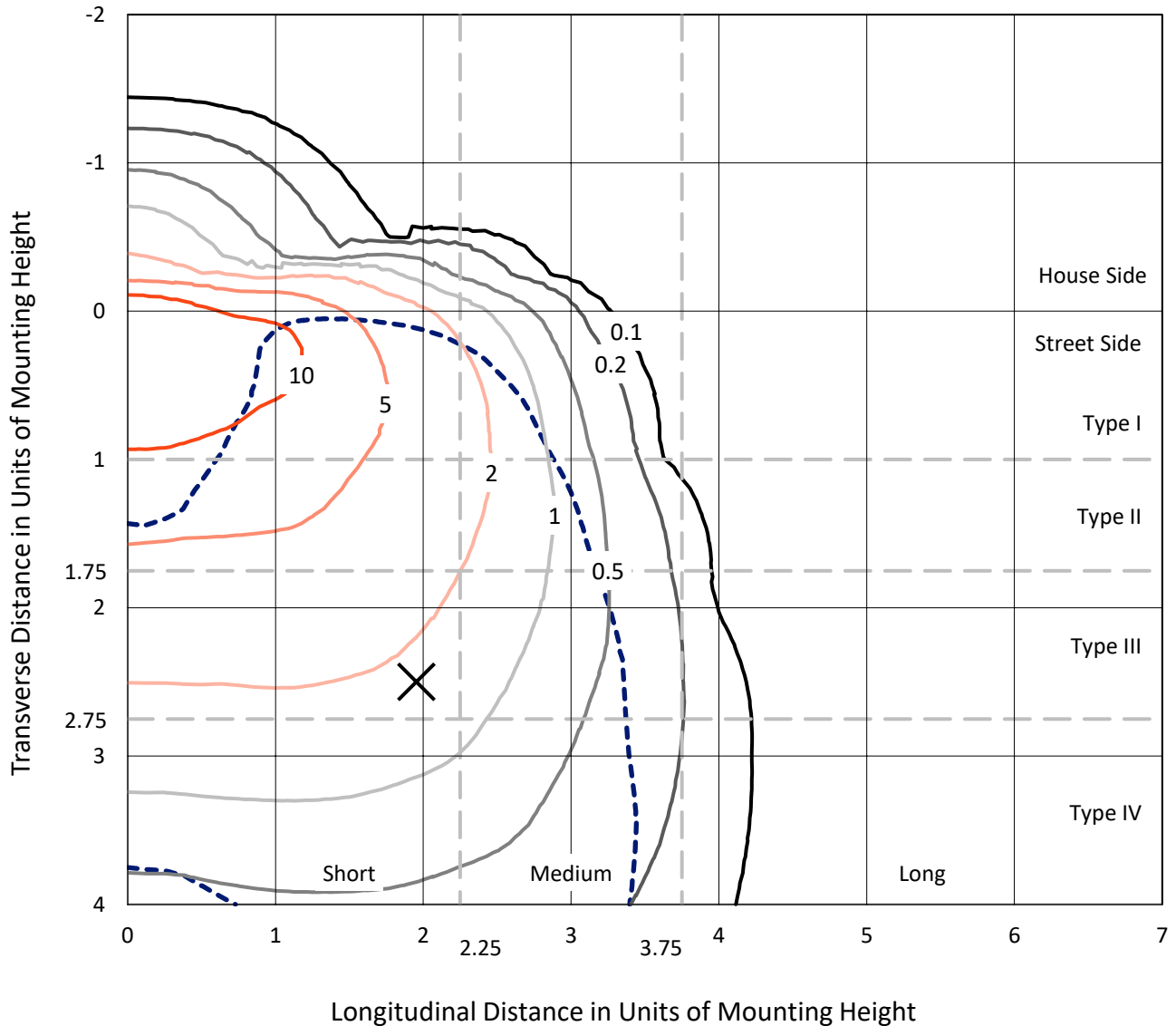
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

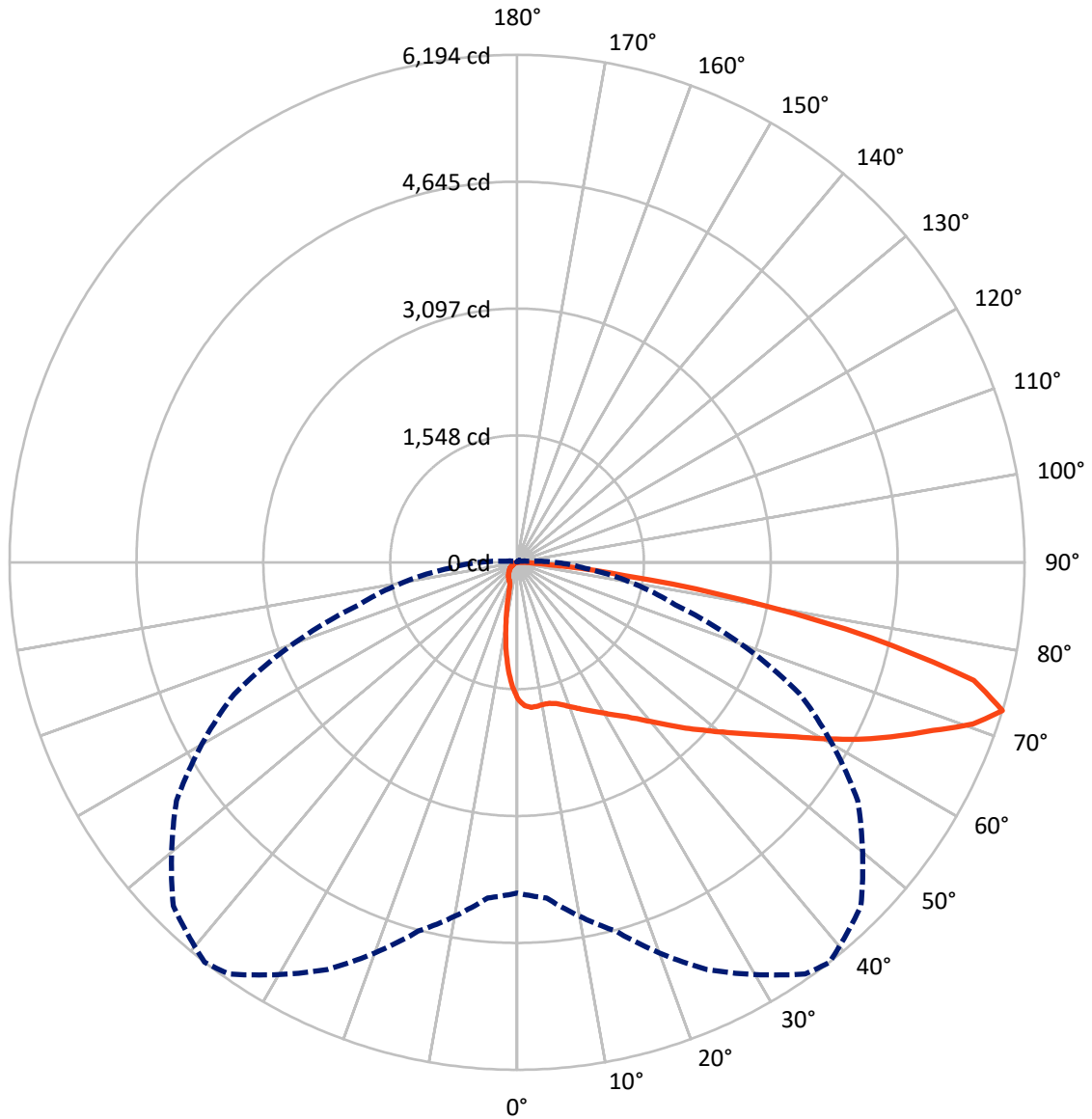
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.2	0.0	765.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8328.1	0.0	8328.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	9093.3	0.0	9093.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.6
10°-20°	348.5	3.8
20°-30°	554.2	6.1
30°-40°	833.2	9.2
40°-50°	1271.1	14.0
50°-60°	1796.5	19.8
60°-70°	2253.4	24.8
70°-80°	1684.9	18.5
80°-90°	208.9	2.3
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°	9093.3	100.0
0°-180°	9093.3	100.0

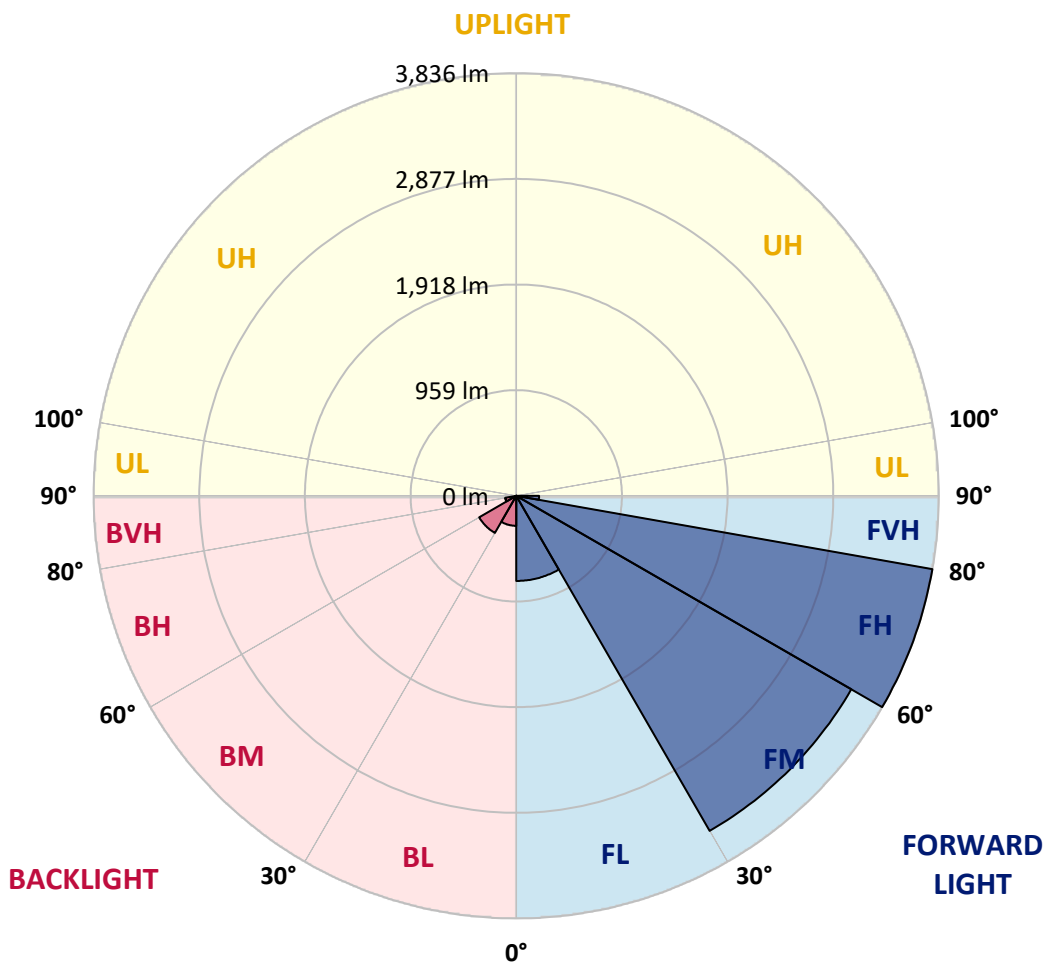


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.7	8.5			
FM (30°-60°)	3512.2	38.6			
FH (60°-80°)	3836.2	42.2			G2/5000
FVH (80°-90°)	207.0	2.3			G2/225
BL (0°-30°)	272.5	3.0	B1/500		
BM (30°-60°)	388.6	4.3	B1/1000		
BH (60°-80°)	102.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2
2.5°	1775.0	1775.4	1771.1	1764.4	1755.7	1751.1	1743.6	1731.5	1718.7	1695.6	1670.7
5°	1811.2	1811.2	1805.9	1796.9	1782.9	1778.7	1764.4	1745.1	1718.7	1681.3	1639.3
7.5°	1807.4	1808.1	1801.0	1791.6	1777.6	1773.9	1756.5	1735.0	1702.1	1656.7	1603.2
10°	1787.8	1789.6	1784.0	1779.5	1766.6	1762.5	1746.2	1724.7	1691.8	1643.6	1581.9
12.5°	1767.8	1769.6	1771.5	1775.7	1767.8	1766.2	1753.5	1735.3	1704.0	1653.7	1584.3
15°	1755.0	1758.7	1772.4	1788.5	1790.5	1788.9	1780.6	1763.6	1731.9	1679.8	1600.4
17.5°	1755.0	1761.0	1789.3	1820.3	1831.3	1832.4	1825.1	1801.4	1763.6	1707.7	1615.6
20°	1769.6	1778.0	1822.1	1866.0	1884.1	1884.1	1870.1	1836.9	1792.7	1733.0	1625.8
22.5°	1807.4	1818.4	1873.9	1924.5	1943.8	1939.6	1920.7	1872.4	1822.9	1761.7	1638.6
25°	1881.8	1890.2	1947.9	1998.9	2010.6	2001.2	1977.3	1915.4	1861.4	1800.6	1662.1
27.5°	1977.7	1978.9	2038.6	2081.6	2074.5	2068.0	2038.2	1969.4	1916.9	1856.1	1702.5
30°	2083.1	2083.1	2135.6	2168.5	2146.6	2141.3	2111.5	2034.8	1987.9	1931.7	1759.9
32.5°	2185.1	2189.6	2232.3	2253.0	2228.5	2223.3	2194.1	2117.5	2082.4	2046.8	1849.4
35°	2283.7	2287.0	2327.4	2338.8	2315.4	2316.9	2296.1	2231.2	2217.9	2213.4	1984.2
37.5°	2379.2	2380.0	2421.1	2428.3	2416.6	2429.5	2431.3	2373.9	2398.5	2435.1	2174.1
40°	2466.5	2467.2	2508.0	2526.5	2546.5	2563.1	2577.9	2547.3	2628.4	2713.4	2400.3
42.5°	2536.3	2544.3	2595.9	2631.1	2683.9	2715.7	2755.7	2754.2	2902.3	3029.9	2673.8
45°	2597.9	2611.4	2683.6	2745.1	2835.7	2886.4	2949.0	2998.2	3210.4	3382.2	2950.5
47.5°	2679.1	2691.9	2774.2	2875.0	2995.9	3062.3	3166.2	3272.4	3549.1	3728.2	3221.0
50°	2793.5	2787.8	2869.0	3013.7	3168.9	3256.1	3404.2	3563.1	3885.2	4029.5	3379.9
52.5°	2915.5	2913.2	2973.3	3164.3	3372.8	3474.7	3670.4	3863.7	4206.6	4237.2	3452.8
55°	3066.6	3050.3	3100.8	3336.2	3614.9	3724.4	3954.8	4161.3	4462.7	4354.3	3489.5
57.5°	3224.8	3198.0	3246.3	3527.6	3887.9	4017.4	4269.7	4451.3	4633.0	4434.4	3489.1
60°	3388.3	3356.5	3413.9	3767.1	4227.0	4376.9	4611.1	4647.4	4792.0	4474.8	3463.5
62.5°	3525.0	3506.1	3591.5	4023.1	4605.8	4753.1	4869.1	4825.6	4926.1	4506.1	3403.4
65°	3669.6	3670.8	3808.6	4321.9	5008.4	5107.7	5117.5	5056.8	5038.3	4499.7	3200.2
67.5°	3865.2	3883.4	4113.3	4727.4	5400.0	5476.7	5475.9	5307.1	5120.2	4244.4	2749.7
70°	4072.2	4114.8	4464.6	5191.6	5827.5	5905.3	5865.3	5466.5	4821.1	3432.1	1946.0
72.5°	4037.4	4111.4	4659.9	5484.3	6134.5	6193.8	5933.7	5074.9	3810.5	1994.7	828.5
75°	3114.8	3200.6	4272.7	5194.2	5812.4	5759.1	5098.3	3949.1	2082.4	556.7	186.6
77.5°	1645.4	1691.1	2822.6	3957.0	4532.2	4420.8	3591.5	2190.8	634.8	137.8	83.8
80°	861.8	872.4	1230.0	2245.2	2797.2	2798.0	2128.5	962.2	261.7	70.6	56.3
82.5°	461.5	470.5	650.0	1037.4	1465.6	1328.6	814.9	529.4	152.2	40.0	54.0
85°	111.0	112.9	368.6	473.9	576.3	411.6	242.1	444.5	41.1	23.4	43.8
87.5°	42.6	43.4	136.7	205.1	146.9	95.2	113.3	165.8	5.3	9.0	6.8
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°	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2	1672.2
2.5°	1655.6	1645.8	1621.7	1591.1	1563.8	1544.2	1514.8	1495.5	1482.6	1482.3	1477.4
5°	1613.7	1593.7	1541.5	1479.6	1423.4	1372.7	1313.1	1265.9	1230.8	1225.1	1213.0
7.5°	1568.8	1535.9	1455.9	1359.2	1264.7	1168.8	1057.4	988.3	929.1	900.7	897.7
10°	1541.2	1495.1	1381.5	1241.7	1093.6	937.7	791.9	691.1	618.2	597.5	582.0
12.5°	1535.5	1474.8	1324.1	1131.4	919.9	713.8	552.5	445.3	387.1	368.6	363.6
15°	1541.2	1465.3	1275.7	1022.3	744.0	506.4	370.9	308.5	286.6	281.3	281.0
17.5°	1544.6	1454.0	1220.9	901.1	573.3	361.8	284.0	265.8	262.5	262.1	262.8
20°	1544.2	1436.6	1155.6	765.9	426.4	284.4	256.8	253.0	252.2	252.6	252.2
22.5°	1541.5	1416.2	1083.9	626.5	322.1	254.2	245.1	242.8	242.5	242.5	242.5
25°	1546.4	1400.0	1005.0	493.2	265.5	240.2	234.6	232.6	232.2	232.2	231.5
27.5°	1564.2	1390.9	918.4	379.5	239.8	227.7	223.2	222.8	221.7	221.3	222.1
30°	1592.9	1390.9	823.7	295.3	224.3	214.8	211.5	210.7	210.3	210.0	210.3
32.5°	1643.6	1401.5	720.1	245.5	209.6	200.6	198.3	199.4	198.3	198.3	198.3
35°	1735.0	1433.1	611.8	214.1	194.1	186.6	184.3	185.8	185.1	185.1	184.7
37.5°	1868.3	1492.1	502.7	195.2	180.6	172.6	169.6	171.8	171.1	171.1	170.7
40°	2030.6	1577.8	398.8	180.9	167.3	158.9	156.3	157.4	155.6	155.6	156.3
42.5°	2231.2	1686.6	308.1	166.9	154.1	146.2	144.7	143.5	140.1	138.2	138.6
45°	2454.0	1799.9	240.2	153.3	141.7	135.2	132.9	129.9	124.3	120.4	120.8
47.5°	2653.0	1887.1	195.2	140.1	130.3	125.4	122.0	116.3	108.0	103.5	103.9
50°	2757.6	1900.3	166.2	126.9	119.7	114.8	109.9	101.2	91.4	86.5	86.1
52.5°	2784.5	1838.4	144.7	114.8	109.2	103.5	97.0	85.4	74.4	69.1	68.4
55°	2794.2	1744.0	125.4	103.5	97.8	91.4	83.0	69.9	59.7	54.4	54.0
57.5°	2761.7	1603.2	110.3	93.3	86.5	78.5	68.4	55.9	46.0	41.9	41.9
60°	2689.6	1412.4	98.5	82.3	74.8	65.8	55.1	43.4	34.4	31.0	31.0
62.5°	2545.8	1165.4	87.6	71.0	63.8	54.4	44.5	32.9	24.1	22.3	22.6
65°	2274.2	884.1	76.7	60.8	54.4	44.9	34.8	23.4	16.3	16.3	17.0
67.5°	1854.6	614.1	65.3	51.8	46.8	36.6	26.4	16.3	11.4	12.9	14.4
70°	1227.7	344.4	55.9	42.6	40.0	29.1	19.6	11.0	9.0	12.1	14.7
72.5°	463.4	134.1	46.8	34.4	34.8	22.3	14.0	8.3	8.3	13.2	17.4
75°	129.2	65.8	33.6	25.3	27.1	16.3	10.2	7.1	7.9	15.1	20.4
77.5°	75.9	48.4	21.9	14.7	18.5	11.4	6.8	5.6	6.8	12.9	19.6
80°	61.2	25.6	12.9	7.5	10.2	6.4	4.5	3.4	1.9	4.9	10.2
82.5°	61.2	15.5	6.0	5.3	5.3	3.4	2.3	1.5	0.4	0.0	2.6
85°	41.1	6.4	3.8	3.4	2.6	1.1	0.8	0.4	0.0	0.0	0.0
87.5°	6.8	2.6	1.5	0.8	0.4	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)