

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: P386387

Luminaire Tested: GAW-SA2A-735-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-SL3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9137.5 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

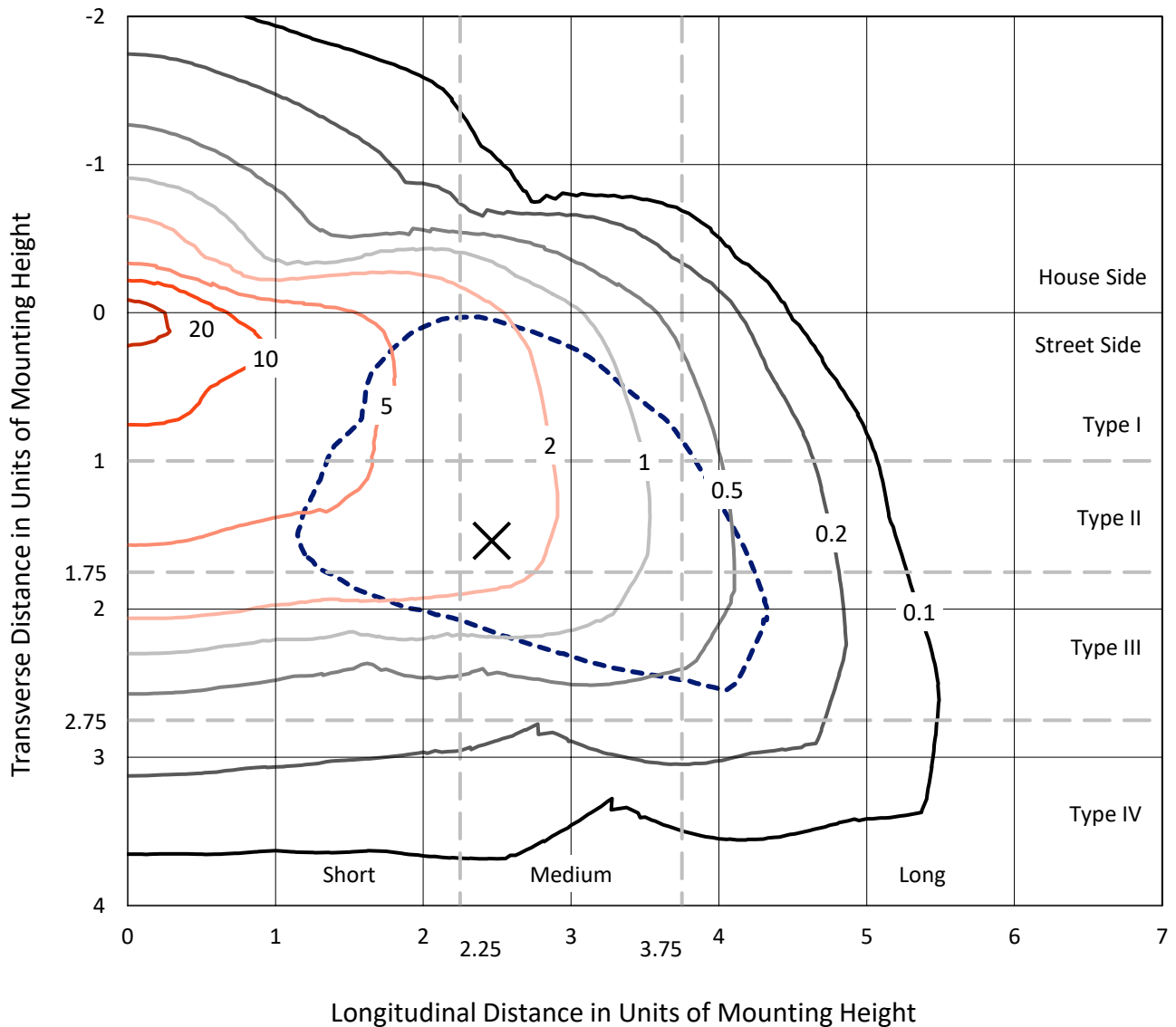
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAW-SA2A-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

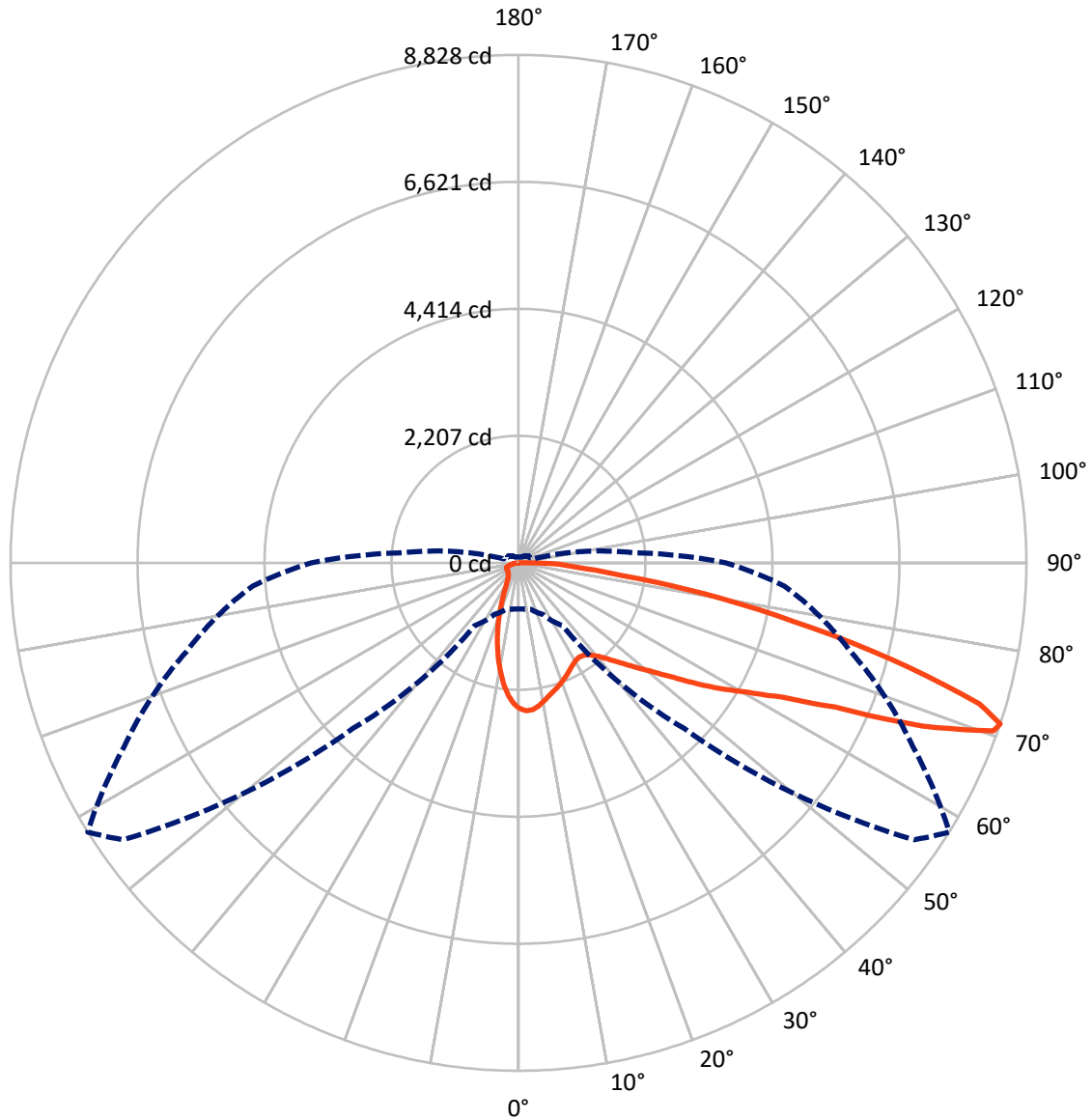
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P386387
CATALOG NUMBER: GAW-SA2A-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.1	0.0	1366.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7771.4	0.0	7771.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	9137.5	0.0	9137.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	2.4
10°-20°	485.7	5.3
20°-30°	617.2	6.8
30°-40°	786.2	8.6
40°-50°	1114.9	12.2
50°-60°	1725.3	18.9
60°-70°	2348.8	25.7
70°-80°	1566.9	17.1
80°-90°	274.0	3.0
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°	9137.5	100.0
0°-180°	9137.5	100.0

Coefficient of Utilization

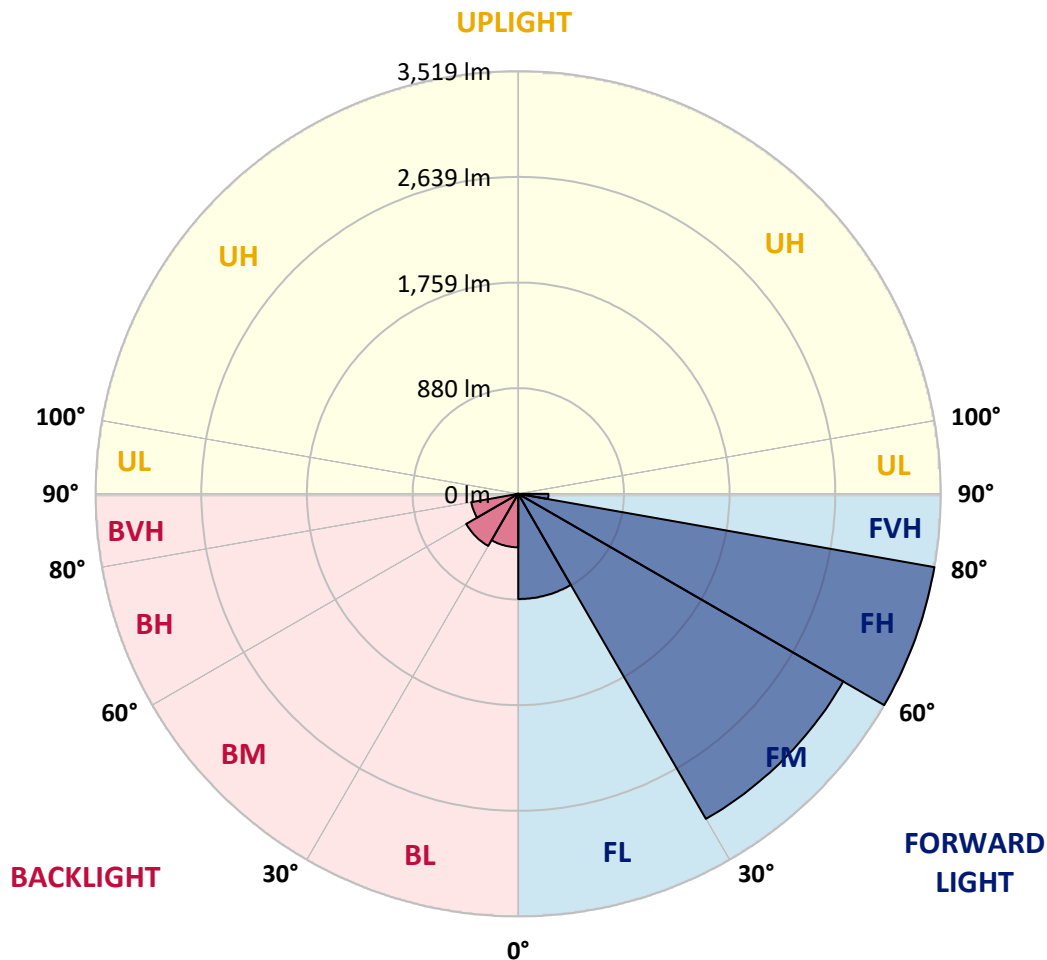


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.0	9.6			
FM (30°-60°)	3125.5	34.2			
FH (60°-80°)	3518.7	38.5			G2/5000
FVH (80°-90°)	251.2	2.7			G3/500
BL (0°-30°)	445.3	4.9	B1/500		
BM (30°-60°)	501.0	5.5	B1/1000		
BH (60°-80°)	397.0	4.3	B1/500		G1/500
BVH (80°-90°)	22.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Medium





REPORT NUMBER: P386387

CATALOG NUMBER: GAW-SA2A-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7
2.5°	2598.8	2595.4	2596.6	2594.0	2588.0	2582.0	2573.1	2574.7	2562.3	2543.8	2520.9
5°	2549.8	2548.6	2558.2	2563.5	2568.0	2564.5	2561.9	2565.1	2547.0	2521.5	2481.7
7.5°	2447.0	2433.0	2445.1	2463.3	2480.5	2493.5	2510.7	2512.9	2501.4	2474.7	2422.5
10°	2301.0	2287.5	2305.4	2333.7	2368.1	2399.3	2434.0	2440.4	2442.6	2418.4	2355.1
12.5°	2149.4	2139.3	2157.0	2196.9	2253.8	2301.9	2357.3	2366.8	2386.5	2370.3	2292.7
15°	2013.9	2010.0	2031.6	2070.8	2136.4	2209.9	2289.8	2307.3	2340.7	2335.3	2243.9
17.5°	1896.7	1895.8	1912.3	1953.4	2025.9	2118.9	2222.6	2252.2	2301.9	2308.3	2203.8
20°	1809.5	1807.6	1819.0	1849.3	1924.1	2029.5	2150.1	2190.8	2262.4	2284.7	2162.5
22.5°	1762.7	1762.4	1762.7	1777.1	1838.1	1936.2	2079.4	2129.0	2223.9	2265.9	2116.6
25°	1754.8	1753.8	1746.8	1745.2	1779.9	1858.2	2009.4	2064.1	2187.3	2252.9	2073.1
27.5°	1775.5	1776.7	1767.5	1752.5	1759.5	1806.9	1948.6	2007.1	2158.0	2250.3	2042.8
30°	1818.4	1817.7	1809.8	1794.2	1780.5	1787.9	1905.3	1963.9	2138.2	2261.5	2022.1
32.5°	1865.8	1869.3	1867.7	1859.2	1838.8	1809.5	1892.2	1949.5	2132.5	2288.2	2013.2
35°	1922.8	1926.6	1938.1	1944.7	1920.9	1873.8	1920.2	1969.9	2149.1	2338.5	2027.5
37.5°	1977.0	1986.8	2018.9	2047.2	2026.8	1974.3	1994.7	2030.0	2200.3	2417.7	2066.0
40°	2039.3	2047.9	2100.4	2160.6	2157.4	2102.9	2114.8	2138.2	2290.7	2531.4	2135.7
42.5°	2100.8	2118.0	2194.0	2279.3	2303.8	2255.8	2274.6	2287.0	2418.1	2682.0	2257.4
45°	2182.5	2201.0	2306.7	2409.5	2466.8	2439.7	2469.7	2474.4	2578.2	2886.9	2434.0
47.5°	2306.3	2327.3	2450.5	2558.4	2646.0	2648.8	2698.1	2696.2	2778.1	3121.5	2656.4
50°	2499.3	2529.5	2630.4	2731.3	2837.5	2896.8	2962.7	2953.5	3017.7	3371.4	2912.7
52.5°	2752.0	2766.0	2840.7	2915.2	3047.3	3180.0	3274.6	3266.3	3289.6	3628.2	3203.6
55°	3014.0	3024.4	3055.3	3096.1	3273.6	3490.0	3689.9	3676.9	3618.0	3894.9	3491.1
57.5°	3249.5	3270.8	3292.1	3308.9	3501.5	3814.1	4114.9	4115.9	3974.5	4182.7	3788.0
60°	3286.0	3304.8	3445.8	3578.9	3891.4	4246.3	4569.7	4560.2	4343.4	4494.9	4119.1
62.5°	2904.7	2947.1	3182.6	3536.5	4267.0	5036.9	5149.9	5138.2	4784.5	4879.8	4504.5
65°	2081.6	2129.7	2414.0	2945.8	4085.0	5908.1	6197.2	6038.6	5386.1	5353.0	4955.8
67.5°	1200.9	1212.4	1335.5	1762.7	3110.3	5953.7	7794.6	7572.8	6320.3	5890.0	5176.7
70°	888.0	887.7	917.0	1084.7	1683.1	4859.0	8554.4	8753.4	7303.9	6066.6	4864.5
71°	803.1	804.0	836.8	987.3	1333.0	4067.1	8393.0	8828.4	7563.0	5979.4	4638.4
72.5°	686.9	690.1	735.5	885.5	1121.4	2804.7	7697.9	8377.8	7685.8	5764.3	4284.9
75°	521.1	528.4	591.3	746.3	1024.9	1422.4	5649.7	6689.9	6827.7	5086.3	3183.9
77.5°	371.7	380.1	451.4	627.7	974.2	1072.0	3783.5	4879.8	5024.5	3259.6	1436.1
80°	234.9	244.8	298.5	499.4	915.4	1017.9	2377.6	3280.0	2739.8	1043.0	365.4
82.5°	137.8	145.4	185.2	326.3	747.7	980.4	1398.9	1818.1	1066.3	315.1	166.2
85°	79.8	83.4	115.5	207.9	543.0	925.3	1027.8	1016.3	462.8	154.1	78.6
87.5°	37.2	41.3	68.4	108.5	301.5	670.6	812.3	701.8	287.7	72.2	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386387
 CATALOG NUMBER: GAW-SA2A-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7	2531.7
2.5°	2509.8	2504.3	2481.7	2461.7	2440.6	2413.3	2383.1	2379.2	2360.8	2364.3	2357.9
5°	2460.1	2446.4	2392.0	2342.7	2284.4	2232.2	2175.5	2149.4	2111.9	2109.3	2099.7
7.5°	2389.1	2363.6	2279.3	2185.7	2092.1	2003.0	1914.9	1856.9	1797.7	1772.5	1770.4
10°	2309.2	2265.9	2141.8	2003.4	1868.4	1738.2	1612.2	1518.9	1434.8	1395.1	1393.5
12.5°	2233.4	2169.4	1999.2	1810.8	1626.2	1457.5	1284.6	1162.1	1056.7	1021.4	1006.5
15°	2169.2	2079.1	1860.4	1619.5	1395.4	1161.1	964.4	835.5	738.1	704.4	698.0
17.5°	2106.8	1991.0	1718.2	1426.3	1155.4	897.9	700.9	605.1	553.2	539.5	539.2
20°	2044.7	1900.2	1569.5	1228.6	923.3	671.6	538.8	495.9	478.4	476.8	474.3
22.5°	1974.3	1804.1	1413.2	1030.3	720.6	528.0	458.0	440.9	438.6	444.3	444.3
25°	1908.5	1708.6	1254.7	836.2	560.5	440.5	409.0	405.5	411.5	421.7	422.7
27.5°	1847.0	1616.6	1100.0	663.7	449.1	388.0	374.9	379.0	389.9	401.7	402.0
30°	1796.4	1529.7	949.8	523.0	379.4	348.9	346.6	354.9	366.6	375.9	378.1
32.5°	1757.3	1455.6	804.7	420.5	333.9	319.6	321.5	328.5	335.8	340.9	344.4
35°	1739.2	1391.9	670.6	354.6	304.9	296.9	299.5	303.3	306.5	310.4	313.2
37.5°	1742.3	1342.6	551.0	313.5	285.5	281.3	281.3	281.3	281.3	283.3	283.6
40°	1771.9	1314.2	453.5	287.5	272.4	268.0	264.5	261.3	258.8	260.0	259.4
42.5°	1847.7	1311.7	382.2	270.8	262.0	254.7	247.6	243.2	240.0	241.2	241.9
45°	1976.3	1343.5	334.2	259.1	252.1	241.0	232.0	227.2	225.1	229.2	229.8
47.5°	2142.8	1412.9	304.9	250.5	242.8	228.2	218.7	214.2	214.8	220.9	222.4
50°	2357.3	1525.6	290.9	245.1	236.4	217.4	207.5	203.7	205.6	214.2	216.2
52.5°	2592.8	1687.9	292.5	243.5	232.3	209.4	199.0	194.5	197.6	205.6	207.2
55°	2864.6	1883.0	318.9	245.7	226.3	204.3	191.9	184.3	186.8	194.2	195.4
57.5°	3166.7	2106.5	372.1	245.1	218.7	199.5	184.6	173.1	175.1	179.5	180.8
60°	3481.1	2376.4	454.5	247.0	215.1	193.8	174.7	160.4	159.8	163.6	164.2
62.5°	3858.7	2688.6	548.7	248.3	217.4	186.6	161.7	147.7	145.8	146.7	147.4
65°	4247.6	2914.6	513.4	243.2	224.4	180.5	150.2	135.3	131.8	131.1	131.4
67.5°	4259.7	2672.4	360.0	233.0	227.2	177.3	141.7	124.8	119.0	116.8	116.5
70°	3820.1	2171.0	280.4	222.2	215.8	172.2	133.7	116.2	107.6	104.1	103.8
71°	3605.6	1998.6	265.8	216.7	207.2	167.1	130.2	112.4	103.4	99.7	99.0
72.5°	3269.2	1791.7	247.9	208.2	190.7	154.1	123.5	106.9	97.7	93.3	92.3
75°	2346.1	1171.6	213.0	185.5	157.9	122.9	108.2	96.1	88.2	82.8	82.1
77.5°	904.0	466.3	161.0	154.3	121.0	96.1	89.1	83.0	77.3	72.0	71.6
80°	279.5	208.5	117.4	116.2	87.6	71.6	69.4	67.8	65.6	59.8	58.5
82.5°	149.3	119.7	80.9	75.2	57.3	47.7	50.3	50.9	51.3	45.2	44.5
85°	71.3	63.3	45.6	42.6	33.4	26.8	30.9	33.4	33.7	27.7	25.7
87.5°	34.1	33.1	21.3	16.3	12.4	8.9	10.8	13.3	14.7	10.5	9.2
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)