

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480413

Luminaire Tested: **IFLD-S-SA2A-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

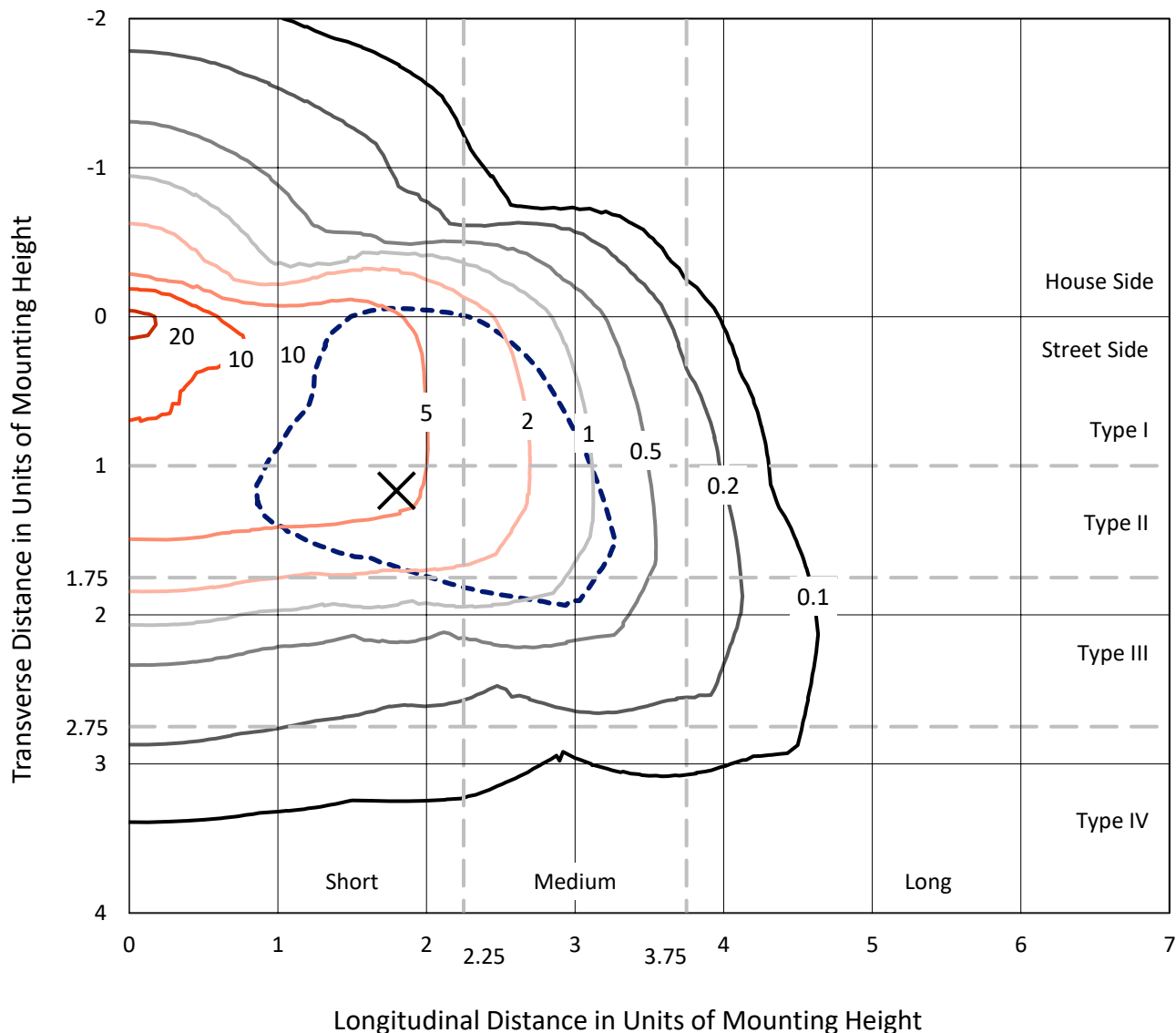
Lumens per Lamp: N/A
Luminaire Lumens: 8295.2 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

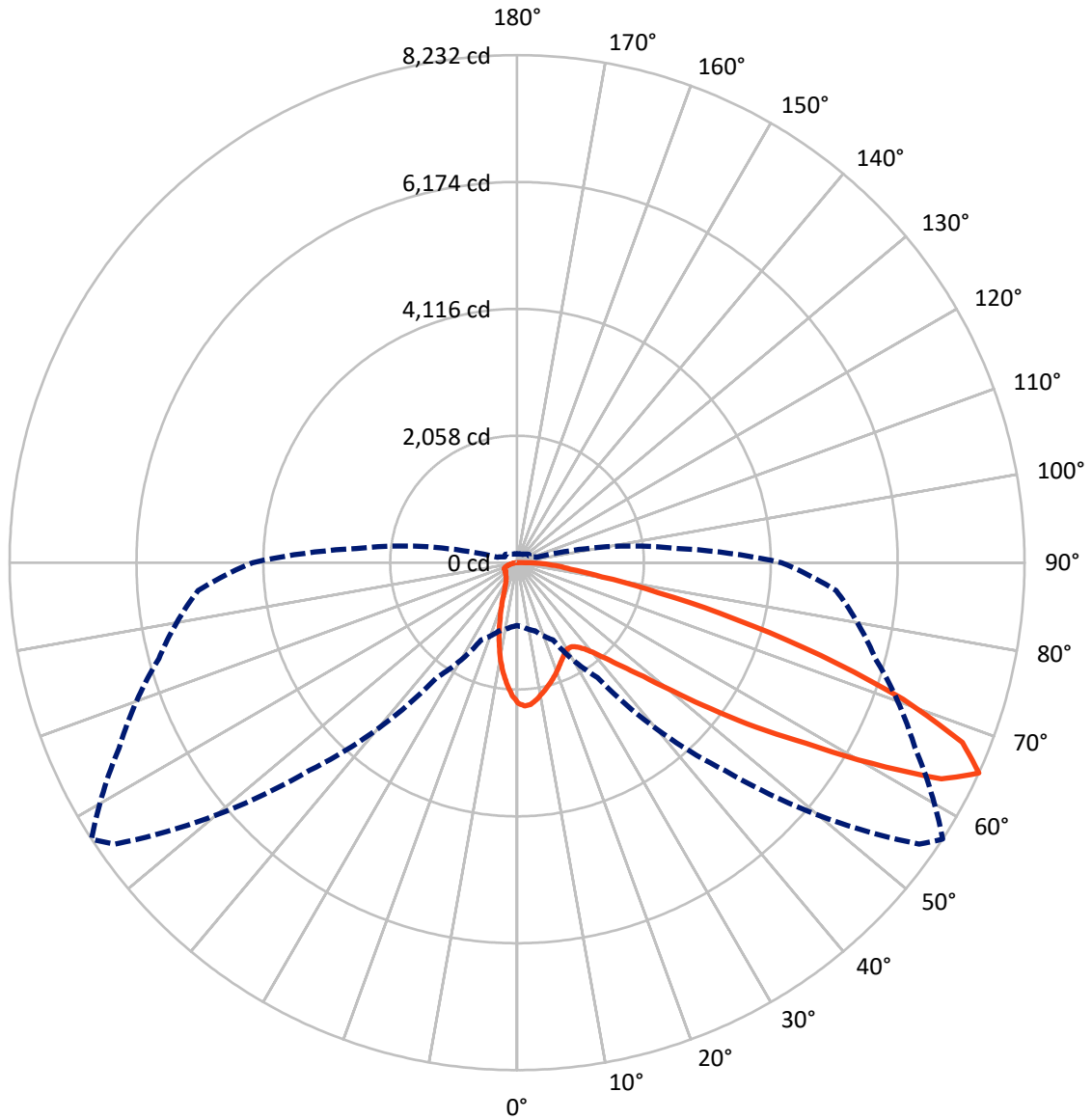
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.1	0.0	1272.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7023.1	0.0	7023.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	8295.2	0.0	8295.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	2.3
10°-20°	411.1	5.0
20°-30°	531.5	6.4
30°-40°	715.3	8.6
40°-50°	1140.5	13.7
50°-60°	2014.4	24.3
60°-70°	2216.2	26.7
70°-80°	927.1	11.2
80°-90°	148.2	1.8
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°	8295.2	100.0
0°-180°	8295.2	100.0

Coefficient of Utilization



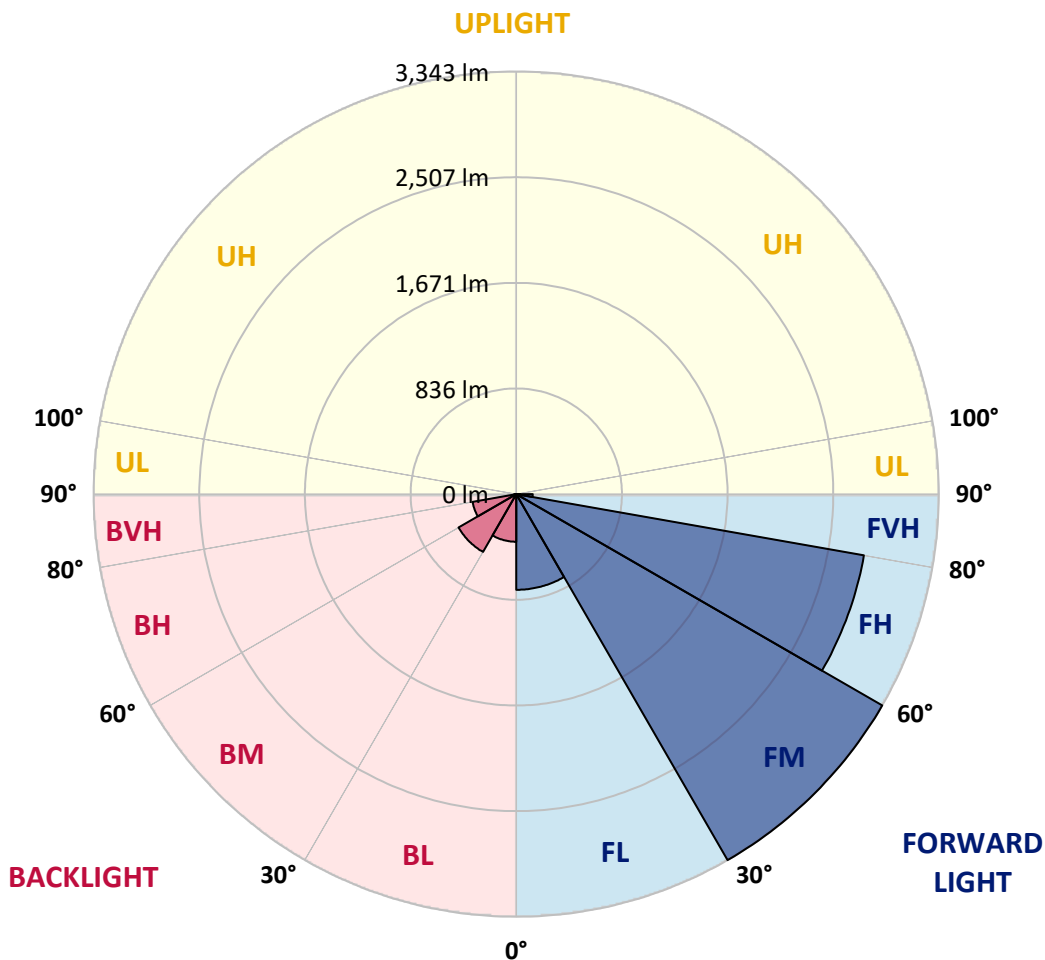
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.9	9.1			
FM (30°-60°)	3343.0	40.3			
FH (60°-80°)	2792.4	33.7			G2/5000
FVH (80°-90°)	130.8	1.6			G2/225
BL (0°-30°)	376.7	4.5	B1/500		
BM (30°-60°)	527.2	6.4	B1/1000		
BH (60°-80°)	350.8	4.2	B1/500		G1/500
BVH (80°-90°)	17.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1
2.5°	2342.7	2346.4	2346.4	2353.9	2328.7	2340.8	2338.9	2327.7	2331.5	2311.9	2292.3
5°	2276.4	2273.6	2288.5	2290.4	2310.0	2315.6	2320.3	2312.8	2314.7	2271.7	2253.1
7.5°	2106.5	2105.6	2130.8	2152.3	2193.3	2231.6	2256.8	2249.3	2259.6	2232.5	2188.7
10°	1904.9	1926.4	1952.5	1974.0	2049.6	2098.1	2163.5	2170.0	2209.2	2202.7	2123.3
12.5°	1753.7	1763.1	1782.7	1844.3	1913.3	1993.6	2086.9	2095.3	2133.6	2152.3	2083.2
15°	1629.6	1638.0	1663.2	1708.9	1786.4	1881.6	2000.1	2021.6	2098.1	2104.7	2030.9
17.5°	1539.1	1545.6	1562.4	1608.1	1671.6	1793.9	1905.9	1944.1	2044.9	2076.7	1976.8
20°	1503.6	1489.6	1498.9	1527.9	1591.3	1685.6	1830.3	1863.9	1992.7	2055.2	1925.5
22.5°	1487.7	1475.6	1481.2	1479.3	1529.7	1596.9	1749.1	1784.5	1943.2	2030.0	1879.7
25°	1499.9	1499.9	1494.3	1489.6	1495.2	1539.1	1661.3	1716.4	1876.9	2008.5	1833.1
27.5°	1565.2	1540.0	1542.8	1523.2	1517.6	1517.6	1622.1	1654.8	1855.5	1996.4	1794.8
30°	1607.2	1619.3	1620.3	1591.3	1562.4	1510.1	1585.7	1617.5	1837.7	2011.3	1772.4
32.5°	1714.5	1708.9	1693.1	1687.5	1644.5	1585.7	1603.5	1624.9	1827.5	2044.9	1778.9
35°	1821.9	1819.1	1820.0	1817.2	1772.4	1685.6	1651.1	1680.0	1846.1	2103.7	1801.3
37.5°	1932.9	1940.4	1972.1	1972.1	1924.5	1830.3	1784.5	1776.1	1914.3	2199.9	1854.5
40°	2044.0	2062.7	2102.8	2166.3	2099.1	2011.3	1937.6	1924.5	1996.4	2328.7	1982.4
42.5°	2150.4	2181.2	2260.5	2354.8	2332.4	2244.7	2146.7	2131.7	2165.3	2520.0	2160.7
45°	2286.7	2312.8	2437.9	2582.5	2613.3	2535.9	2421.1	2408.9	2407.1	2800.0	2406.1
47.5°	2493.9	2521.9	2646.9	2792.6	2887.8	2899.9	2771.1	2758.0	2713.2	3178.0	2765.5
50°	2753.3	2799.1	2904.6	3074.4	3212.6	3342.3	3305.9	3267.6	3179.9	3617.6	3221.0
52.5°	2942.8	2998.8	3141.6	3359.1	3602.7	3809.0	3939.6	3939.6	3738.0	4100.2	3768.8
55°	2993.2	3026.8	3207.0	3521.5	3938.7	4460.4	4733.9	4713.4	4402.6	4607.9	4406.3
57.5°	2792.6	2836.4	3054.8	3384.3	4115.1	5069.9	5522.6	5527.2	5128.7	5197.8	5035.4
60°	2240.0	2254.0	2511.6	2952.2	3945.2	5560.8	6599.6	6617.4	5954.7	5723.2	5355.5
62.5°	1548.4	1593.2	1787.3	2173.7	3268.6	5505.8	7638.4	7726.2	6616.4	6000.4	5405.9
65°	1019.2	1046.3	1149.9	1385.1	2275.5	4772.2	7961.4	8232.0	7122.3	6016.3	5195.0
67.5°	739.2	743.9	774.7	896.0	1367.3	3431.9	7409.8	7791.5	7311.8	5883.8	4700.3
70°	597.3	601.1	612.3	689.7	882.9	2147.6	6043.4	6641.6	6743.4	5255.6	3785.6
72.5°	485.3	490.0	504.0	576.8	728.0	1194.7	4419.4	5148.3	5485.2	3888.3	2516.3
75°	381.7	385.5	419.1	490.9	684.1	820.4	2931.6	3645.6	3691.4	2272.7	1177.9
77.5°	261.3	267.9	308.9	416.3	644.0	717.7	1827.5	2335.2	2095.3	889.5	405.1
80°	166.1	175.5	199.7	315.5	569.3	685.1	1136.8	1394.4	917.5	304.3	195.1
82.5°	98.0	107.3	131.6	204.4	447.1	635.6	800.8	872.7	430.3	155.9	117.6
85°	54.1	60.7	79.3	123.2	262.3	564.7	641.2	626.3	246.4	83.1	73.7
87.5°	17.7	20.5	28.9	49.5	108.3	266.0	384.5	361.2	127.9	38.3	28.9
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°	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1	2281.1
2.5°	2279.2	2276.4	2234.4	2202.7	2148.5	2103.7	2086.0	2061.7	2060.8	2043.1	2038.4
5°	2224.1	2195.2	2130.8	2069.2	1973.1	1908.7	1849.9	1808.8	1792.0	1755.6	1747.2
7.5°	2153.2	2114.9	2016.0	1900.3	1787.3	1686.5	1595.1	1503.6	1452.3	1434.5	1414.9
10°	2079.5	2012.3	1865.7	1736.0	1578.3	1423.3	1279.6	1150.8	1080.8	1031.3	1009.9
12.5°	2020.7	1931.1	1744.4	1550.3	1342.1	1134.9	967.9	832.5	753.2	715.9	699.1
15°	1954.4	1835.9	1611.9	1366.4	1106.9	871.7	708.4	602.0	570.3	552.5	549.7
17.5°	1884.4	1747.2	1468.1	1185.3	877.3	656.1	550.7	507.7	493.7	486.3	482.5
20°	1819.1	1667.9	1320.7	983.7	686.9	526.4	476.9	454.5	453.6	457.3	456.4
22.5°	1726.7	1564.3	1175.1	797.1	548.8	458.3	426.5	420.9	426.5	431.2	433.1
25°	1674.4	1479.3	1012.7	632.8	453.6	406.9	396.7	394.8	403.2	408.8	407.9
27.5°	1620.3	1391.6	861.5	506.8	397.6	370.5	368.7	370.5	378.9	387.3	386.4
30°	1578.3	1321.6	719.6	423.7	354.7	344.4	342.5	344.4	349.1	350.0	350.0
32.5°	1543.7	1238.5	599.2	367.7	328.5	320.1	322.0	321.1	322.0	322.9	323.9
35°	1523.2	1189.1	500.3	333.2	307.1	300.5	299.6	296.8	297.7	298.7	297.7
37.5°	1567.1	1164.8	421.9	308.9	292.1	286.5	284.7	282.8	280.0	280.0	280.0
40°	1633.3	1151.7	374.3	293.1	280.9	274.4	268.8	266.9	266.9	267.9	268.8
42.5°	1764.9	1173.2	341.6	280.9	266.9	259.5	253.9	254.8	257.6	260.4	258.5
45°	1955.3	1238.5	326.7	271.6	258.5	248.3	244.5	243.6	246.4	251.1	254.8
47.5°	2204.5	1340.3	321.1	263.2	252.9	238.9	234.3	237.1	240.8	247.3	244.5
50°	2612.4	1568.9	325.7	255.7	244.5	234.3	228.7	225.9	228.7	233.3	235.2
52.5°	3145.4	1984.3	343.5	252.0	238.9	230.5	221.2	216.5	219.3	223.1	223.1
55°	3782.8	2551.7	392.9	247.3	229.6	224.9	214.7	205.3	207.2	207.2	206.3
57.5°	4344.7	2980.2	451.7	240.8	224.0	217.5	204.4	193.2	191.3	192.3	193.2
60°	4596.7	3094.0	479.7	238.9	224.0	208.1	190.4	179.2	176.4	174.5	174.5
62.5°	4552.8	2897.1	422.8	230.5	229.6	200.7	177.3	165.2	161.5	157.7	158.7
65°	4287.8	2616.1	333.2	219.3	230.5	196.0	164.3	152.1	145.6	140.9	140.0
67.5°	3803.4	2233.5	264.1	210.9	221.2	187.6	153.1	139.1	133.5	128.8	126.9
70°	2975.5	1750.9	229.6	199.7	198.8	167.1	140.0	127.9	119.5	113.9	113.9
72.5°	1929.2	1106.9	196.9	177.3	171.7	140.0	121.3	113.9	107.3	102.7	102.7
75°	873.6	514.3	158.7	148.4	140.0	112.0	102.7	98.9	93.3	88.7	88.7
77.5°	313.6	219.3	118.5	116.7	104.5	86.8	83.1	80.3	76.5	71.9	71.9
80°	175.5	139.1	88.7	84.9	72.8	64.4	59.7	59.7	57.9	55.1	54.1
82.5°	111.1	90.5	65.3	56.9	47.6	42.9	41.1	40.1	39.2	35.5	34.5
85°	70.0	61.6	42.9	33.6	28.0	21.5	20.5	19.6	17.7	15.9	15.9
87.5°	31.7	35.5	16.8	10.3	7.5	4.7	2.8	0.9	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)