

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: P480062

Luminaire Tested: **IFLD-S-SA2A-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480062  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

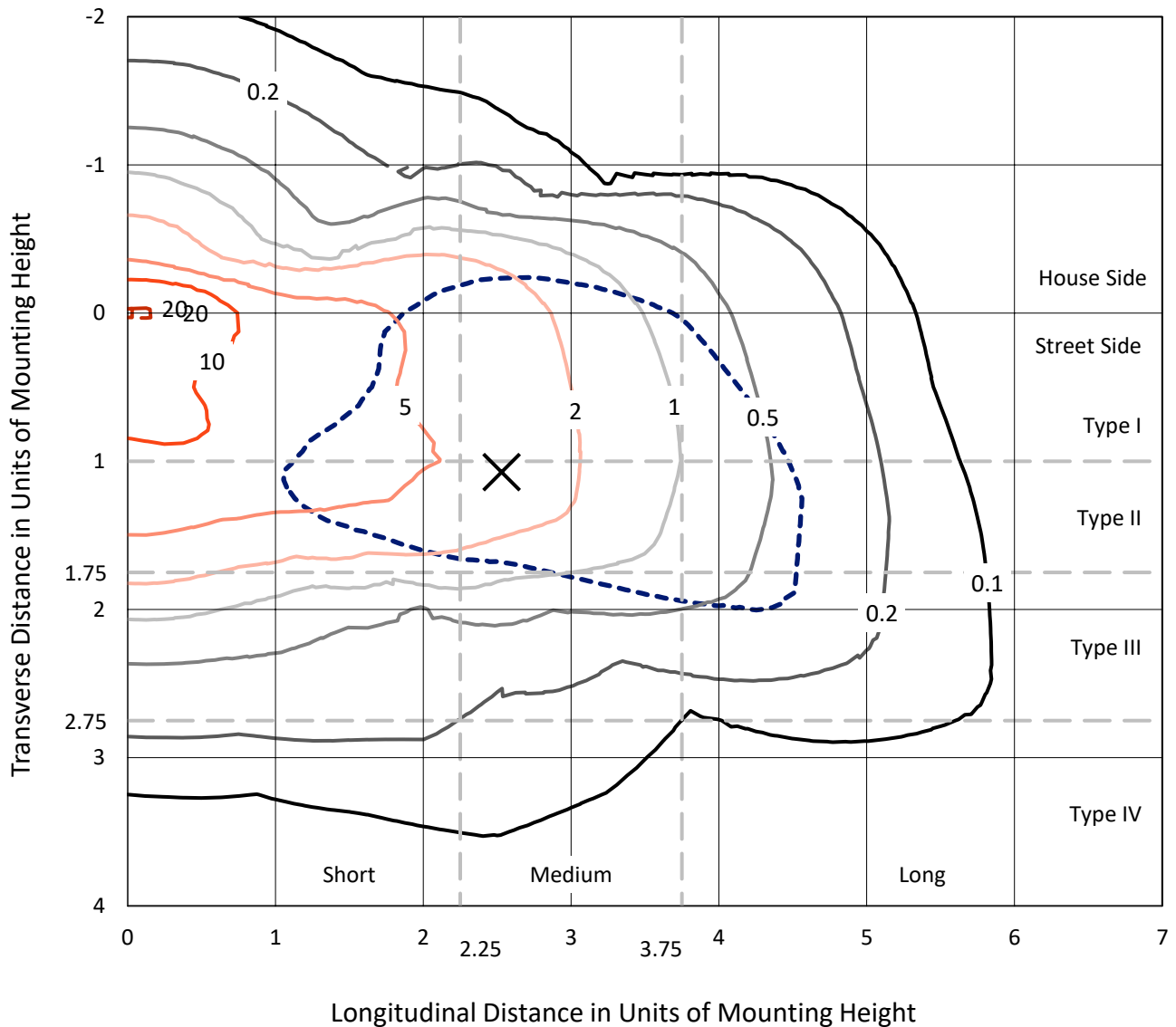
Lumens per Lamp: N/A  
Luminaire Lumens: 9078.9 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

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

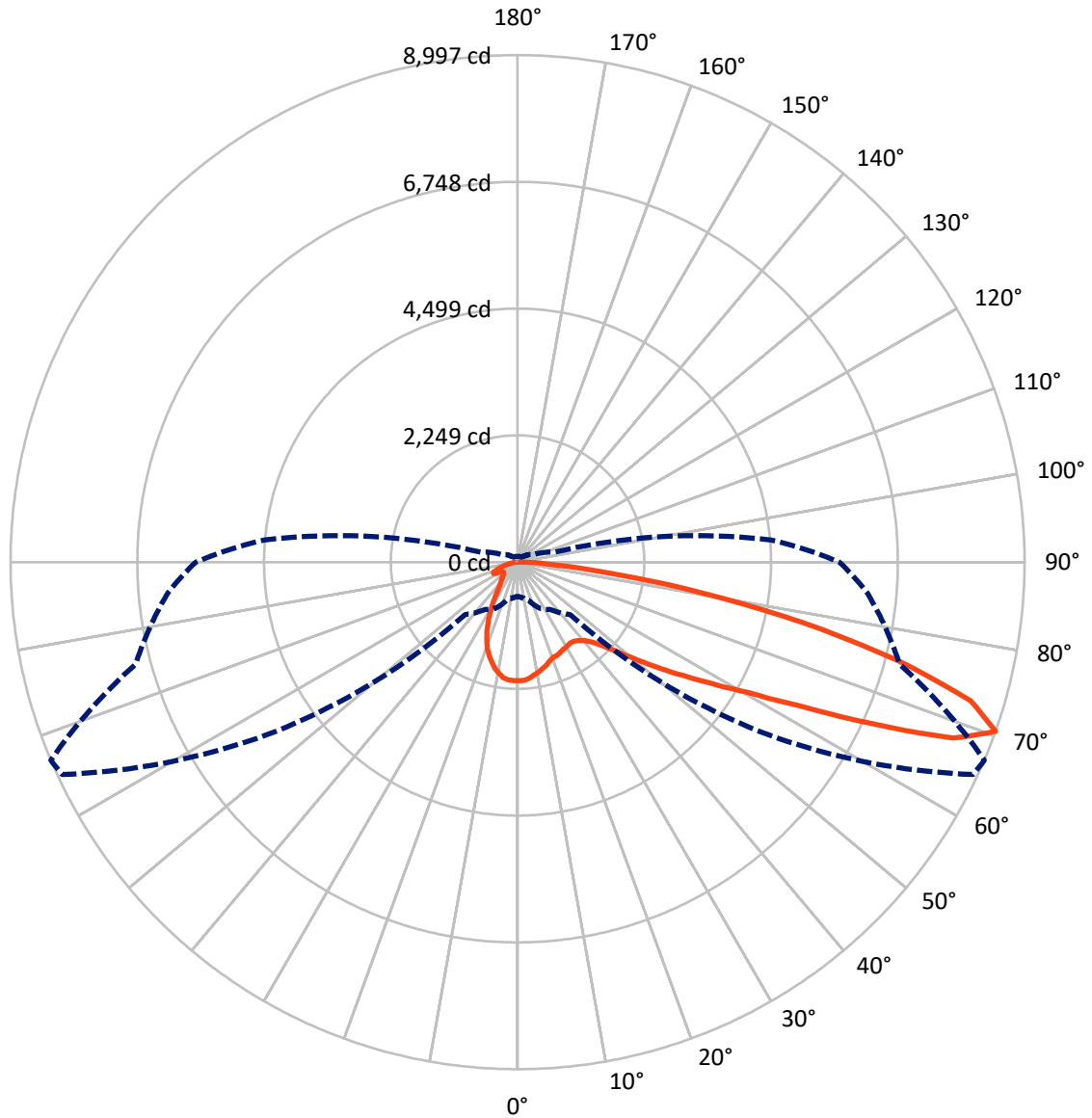
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1768.2	0.0	1768.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7310.7	0.0	7310.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9078.9	0.0	9078.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.4	2.0
10°-20°	439.2	4.8
20°-30°	593.1	6.5
30°-40°	793.6	8.7
40°-50°	1167.0	12.9
50°-60°	1819.1	20.0
60°-70°	2240.8	24.7
70°-80°	1583.3	17.4
80°-90°	259.5	2.9
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°	9078.9	100.0
0°-180°	9078.9	100.0

**Coefficient of Utilization**



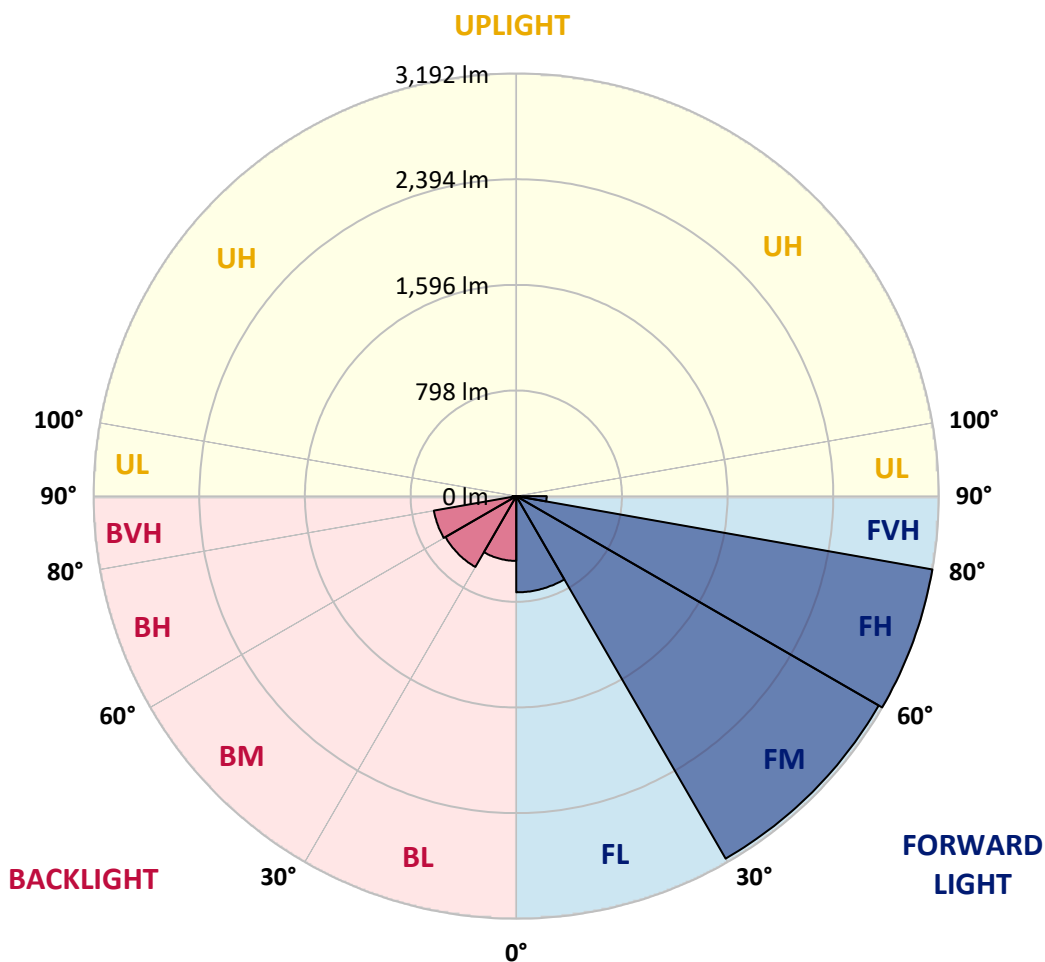
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.7	8.0			
FM (30°-60°)	3162.0	34.8			
FH (60°-80°)	3192.5	35.2			G2/5000
FVH (80°-90°)	229.6	2.5			G3/500
BL (0°-30°)	489.0	5.4	B1/500		
BM (30°-60°)	617.7	6.8	B1/1000		
BH (60°-80°)	631.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	29.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	1957.0	1979.1	1987.2	1999.2	2030.4	2053.5	2067.6	2083.7	2102.8	2118.8	2128.9
5°	1820.3	1832.4	1851.5	1864.5	1903.7	1966.1	2008.3	2076.6	2074.6	2099.7	2137.9
7.5°	1687.6	1699.7	1708.7	1734.9	1791.2	1847.4	1924.8	2035.4	2027.4	2085.7	2145.0
10°	1605.2	1596.2	1599.2	1643.4	1687.6	1751.0	1848.5	1961.0	1990.2	2080.6	2165.1
12.5°	1527.8	1517.8	1541.9	1570.0	1624.3	1681.6	1798.2	1899.7	1943.9	2062.5	2174.1
15°	1479.6	1472.5	1502.7	1514.7	1579.1	1647.4	1729.8	1853.5	1901.7	2040.4	2160.0
17.5°	1452.4	1458.5	1469.5	1495.6	1536.9	1595.2	1685.6	1822.3	1843.4	2013.3	2157.0
20°	1457.5	1464.5	1465.5	1476.6	1504.7	1549.9	1642.4	1789.1	1803.2	2008.3	2165.1
22.5°	1497.7	1487.6	1491.6	1484.6	1492.6	1527.8	1609.2	1744.9	1799.2	1966.1	2148.0
25°	1558.0	1543.9	1541.9	1517.8	1502.7	1512.7	1603.2	1733.9	1769.0	1953.0	2147.0
27.5°	1664.5	1643.4	1643.4	1607.2	1545.9	1529.8	1586.1	1715.8	1746.9	1940.9	2123.9
30°	1767.0	1767.0	1768.0	1716.8	1648.4	1569.0	1593.1	1708.7	1728.8	1904.7	2092.7
32.5°	1891.7	1888.7	1883.6	1858.5	1753.0	1634.4	1627.3	1699.7	1709.7	1892.7	2083.7
35°	2013.3	2005.3	2044.5	2022.3	1914.8	1762.0	1662.5	1703.7	1725.8	1874.6	2055.5
37.5°	2104.8	2109.8	2191.2	2205.3	2112.8	1906.8	1762.0	1743.9	1765.0	1900.7	2055.5
40°	2223.4	2243.5	2319.9	2367.1	2310.8	2097.7	1919.8	1811.3	1826.3	1959.0	2099.7
42.5°	2379.2	2396.3	2493.8	2555.1	2539.0	2341.0	2075.6	1952.0	1939.9	2056.5	2166.1
45°	2585.2	2588.2	2686.7	2771.2	2804.3	2595.3	2322.9	2129.9	2119.8	2224.4	2287.7
47.5°	2830.5	2827.5	2888.8	2979.2	3068.7	2898.8	2607.3	2400.3	2364.1	2464.6	2489.7
50°	3067.7	3054.6	3068.7	3184.3	3356.2	3278.8	2953.1	2731.0	2694.8	2750.1	2793.3
52.5°	3198.4	3214.4	3176.2	3329.0	3661.7	3728.1	3411.4	3126.0	3094.8	3122.0	3197.4
55°	3106.9	3140.1	3114.9	3259.7	3795.4	4275.9	4004.5	3583.3	3543.1	3533.1	3656.7
57.5°	2717.9	2778.2	2783.2	3012.4	3749.2	4700.0	4838.7	4123.1	4062.8	3960.3	4087.9
60°	2086.7	2147.0	2193.2	2464.6	3353.1	4953.3	5805.7	4891.0	4692.0	4426.6	4503.0
62.5°	1462.5	1503.7	1549.9	1716.8	2585.2	4804.6	6642.0	5972.5	5605.7	4918.1	5013.6
65°	1065.4	1097.6	1144.9	1243.4	1588.1	3975.3	7029.9	7257.1	6909.3	5543.3	5531.3
67.5°	802.1	822.2	884.5	1042.3	1100.6	2455.6	6627.9	8614.0	8332.6	6237.9	5947.4
70°	607.1	624.2	682.5	898.6	1028.3	1316.7	5228.7	8916.6	8997.0	7016.9	6226.8
72.5°	418.1	437.2	502.6	748.8	979.0	1044.3	3281.8	8100.4	8405.0	7337.5	5927.3
75°	256.3	269.4	307.6	567.9	972.0	1021.2	1806.2	6637.9	6960.6	6779.7	5185.5
77.5°	180.9	179.9	187.0	332.7	842.3	1027.3	1113.7	4863.9	5177.5	4996.6	3519.0
80°	131.7	132.7	139.7	199.0	571.9	1044.3	877.5	3257.7	3351.1	2605.3	1388.1
82.5°	79.4	83.4	100.5	134.7	343.8	942.8	811.1	1810.3	1693.7	836.3	382.0
85°	42.2	42.2	59.3	85.4	182.9	703.6	781.0	861.4	721.7	259.3	141.7
87.5°	10.1	10.1	17.1	34.2	73.4	336.7	532.7	342.8	274.4	87.4	58.3
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°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2124.9	2112.8	2127.9	2097.7	2073.6	2074.6	2037.4	2035.4	2030.4	2004.2	2013.3
5°	2149.0	2138.9	2121.9	2088.7	2035.4	1982.1	1950.0	1908.8	1891.7	1882.6	1886.6
7.5°	2172.1	2154.0	2104.8	2058.5	1976.1	1875.6	1817.3	1762.0	1691.7	1683.6	1669.5
10°	2178.1	2139.9	2076.6	1978.1	1868.6	1757.0	1624.3	1521.8	1467.5	1425.3	1409.2
12.5°	2169.1	2153.0	2031.4	1904.7	1738.9	1564.0	1409.2	1264.5	1164.0	1111.7	1097.6
15°	2168.1	2139.9	1981.1	1793.2	1581.1	1352.9	1132.8	958.9	853.4	810.1	810.1
17.5°	2169.1	2101.7	1921.8	1680.6	1395.1	1086.6	844.3	701.6	643.3	637.3	642.3
20°	2149.0	2073.6	1859.5	1547.9	1161.9	816.2	613.1	554.8	554.8	562.9	565.9
22.5°	2130.9	2031.4	1761.0	1384.1	924.7	591.0	498.5	481.5	500.6	514.6	520.7
25°	2105.8	1996.2	1660.5	1214.2	703.6	476.4	433.2	437.2	455.3	480.5	478.4
27.5°	2069.6	1934.9	1540.9	1017.2	523.7	411.1	400.0	402.1	421.2	432.2	430.2
30°	2028.4	1872.6	1430.3	821.2	415.1	376.9	375.9	380.9	384.0	390.0	389.0
32.5°	1976.1	1790.2	1312.7	638.3	373.9	357.8	353.8	350.8	353.8	352.8	349.8
35°	1938.9	1745.9	1193.1	486.5	350.8	340.7	337.7	332.7	328.7	322.6	321.6
37.5°	1928.9	1701.7	1067.5	397.0	332.7	327.7	317.6	308.6	303.6	300.5	298.5
40°	1922.8	1672.6	944.8	348.8	317.6	312.6	300.5	288.5	283.4	280.4	281.4
42.5°	1943.9	1656.5	820.2	324.7	304.6	295.5	282.4	268.4	267.4	265.4	268.4
45°	2018.3	1676.6	704.6	307.6	291.5	276.4	259.3	252.3	251.3	249.3	251.3
47.5°	2187.2	1726.8	606.1	296.5	277.4	264.4	246.3	236.2	235.2	234.2	234.2
50°	2420.4	1881.6	523.7	283.4	268.4	250.3	233.2	222.1	220.1	216.1	216.1
52.5°	2786.2	2142.0	474.4	276.4	252.3	237.2	219.1	207.1	202.0	198.0	198.0
55°	3198.4	2464.6	465.4	264.4	235.2	221.1	205.0	193.0	188.0	182.9	180.9
57.5°	3667.8	2891.8	529.7	256.3	223.1	205.0	187.0	175.9	171.9	166.9	164.8
60°	4105.0	3318.0	729.7	244.2	212.1	190.0	171.9	160.8	155.8	150.8	150.8
62.5°	4610.6	3845.7	1068.5	244.2	202.0	173.9	155.8	147.8	144.7	139.7	138.7
65°	5208.6	4391.5	1315.7	259.3	199.0	159.8	140.7	132.7	129.7	126.6	125.6
67.5°	5664.0	4705.1	1131.8	299.5	212.1	147.8	125.6	120.6	118.6	115.6	113.6
70°	5712.2	4514.1	682.5	323.7	225.2	135.7	112.6	107.5	107.5	104.5	102.5
72.5°	5279.0	4005.5	459.3	288.5	204.0	121.6	99.5	95.5	93.5	91.5	90.5
75°	4417.6	3397.4	362.9	230.2	156.8	100.5	86.4	82.4	79.4	78.4	76.4
77.5°	2967.2	2208.3	268.4	179.9	115.6	81.4	72.4	68.3	65.3	64.3	61.3
80°	1139.8	841.3	172.9	130.7	81.4	64.3	57.3	53.3	51.3	48.2	46.2
82.5°	335.7	272.4	96.5	80.4	52.3	44.2	41.2	38.2	35.2	32.2	31.2
85°	138.7	124.6	59.3	42.2	32.2	26.1	24.1	21.1	18.1	16.1	14.1
87.5°	64.3	53.3	27.1	16.1	11.1	6.0	3.0	1.0	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)