

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: P477098

Luminaire Tested: **IFLD-S-SA2A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

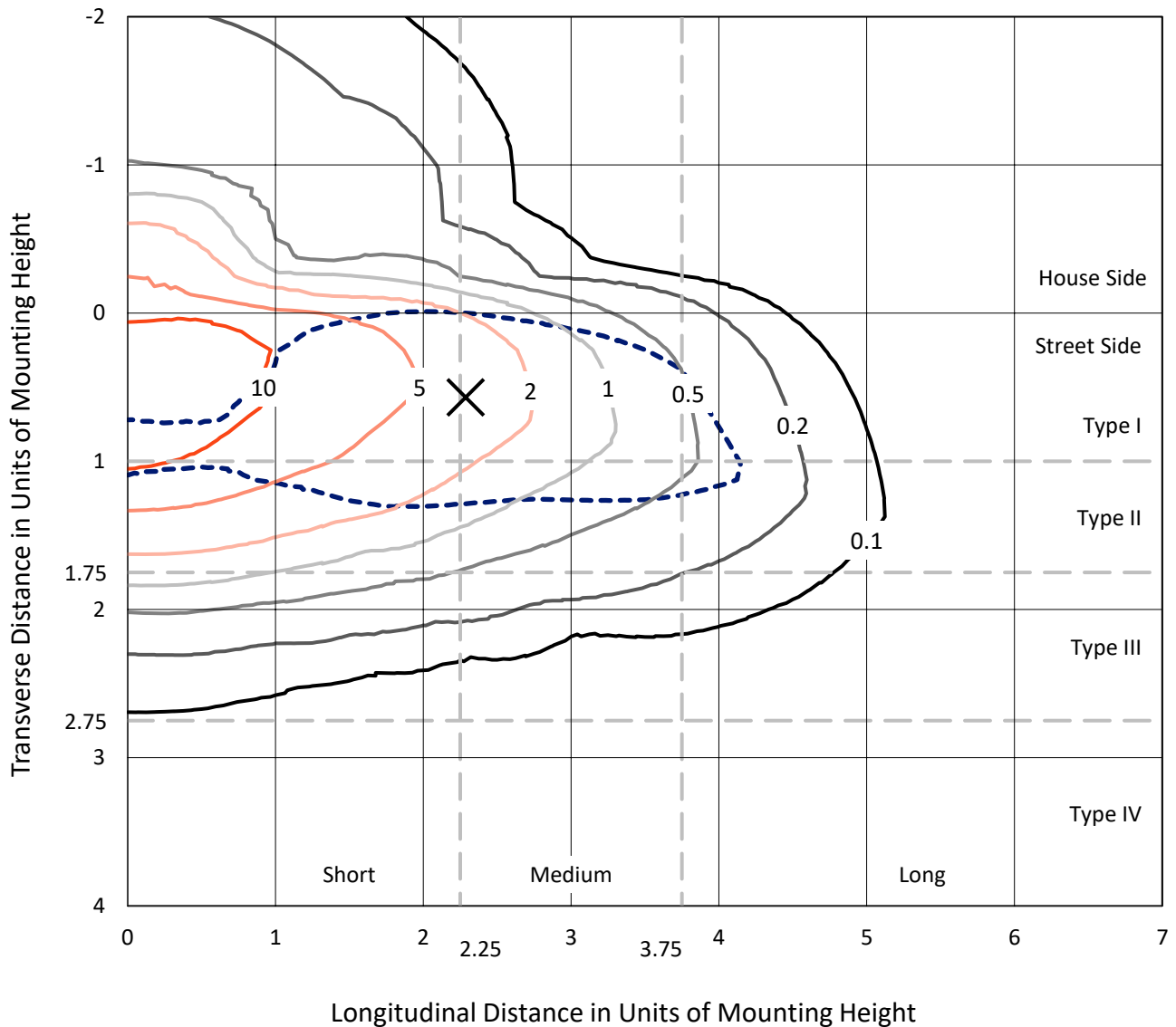
Lumens per Lamp: N/A
Luminaire Lumens: 6824.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

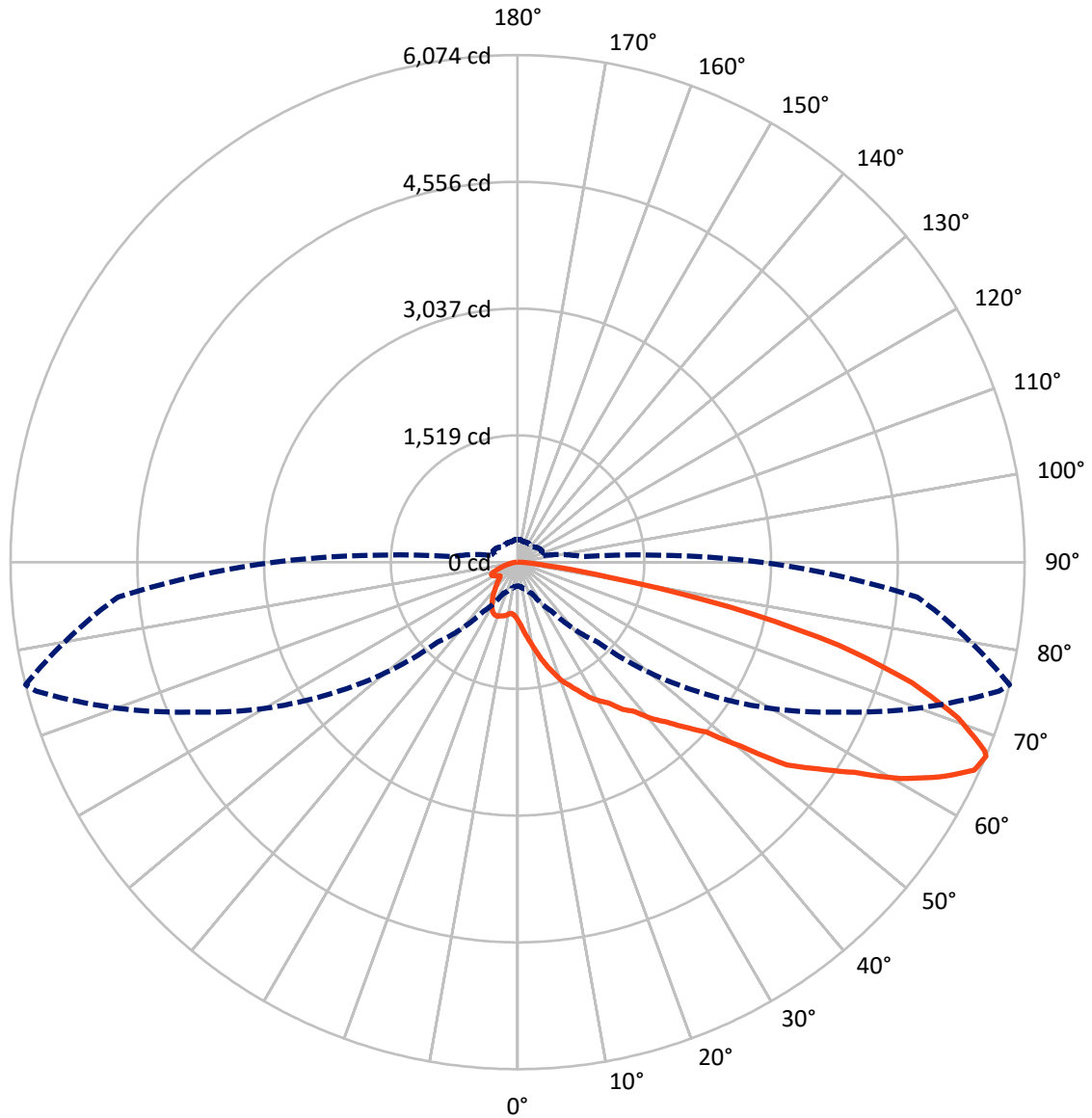
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.9	0.0	970.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5853.8	0.0	5853.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	6824.7	0.0	6824.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.2
10°-20°	303.4	4.4
20°-30°	564.1	8.3
30°-40°	894.2	13.1
40°-50°	1236.8	18.1
50°-60°	1521.3	22.3
60°-70°	1415.7	20.7
70°-80°	710.4	10.4
80°-90°	98.0	1.4
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°	6824.7	100.0
0°-180°	6824.7	100.0

Coefficient of Utilization



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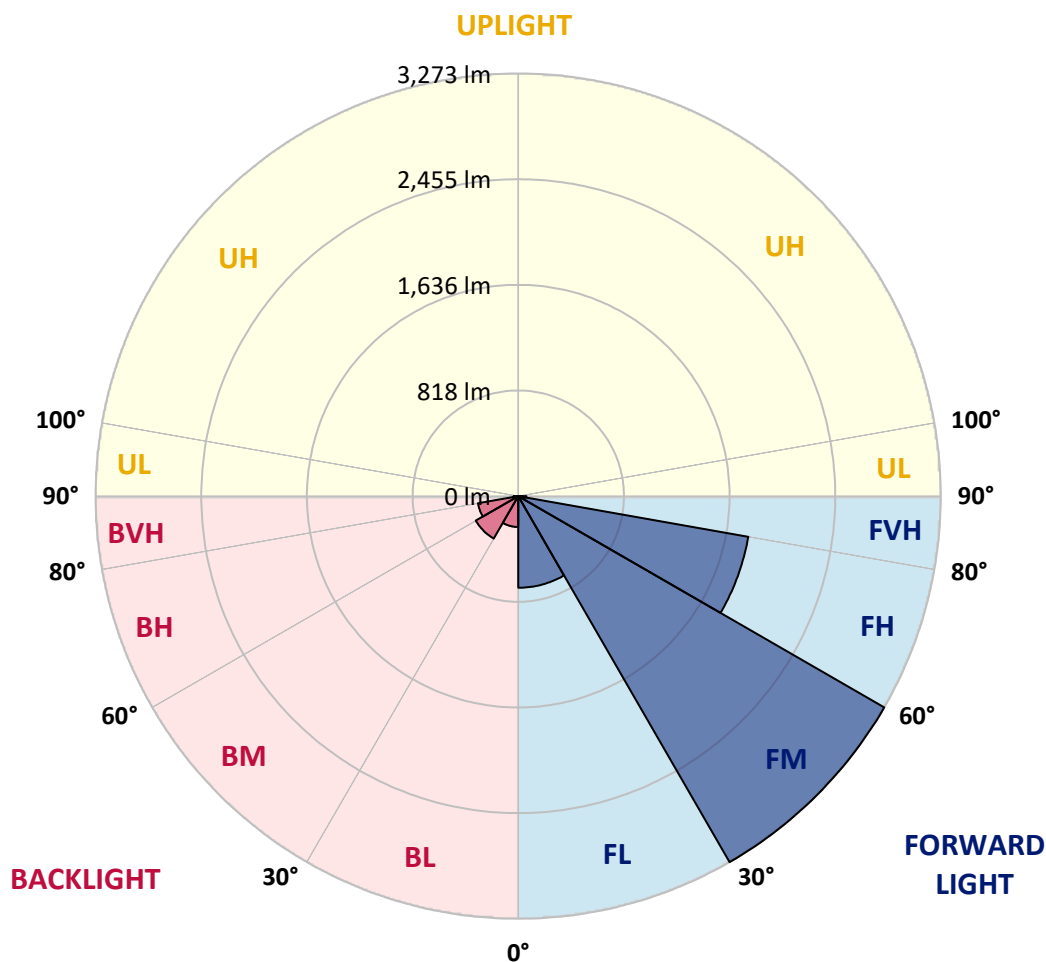
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.3	10.4			
FM (30°-60°)	3272.9	48.0			
FH (60°-80°)	1809.2	26.5			G2/5000
FVH (80°-90°)	62.4	0.9			G1/100
BL (0°-30°)	239.1	3.5	B1/500		
BM (30°-60°)	379.4	5.6	B1/1000		
BH (60°-80°)	316.9	4.6	B1/500		G1/500
BVH (80°-90°)	35.5	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4
2.5°	969.1	957.4	945.7	920.8	912.3	889.0	846.2	798.7	759.8	754.4	727.2
5°	1202.4	1185.3	1181.4	1167.4	1123.1	1077.9	1007.9	931.7	836.8	843.8	750.5
7.5°	1377.4	1367.3	1346.3	1333.0	1306.6	1246.7	1174.4	1073.3	952.7	929.4	802.6
10°	1509.6	1495.6	1494.8	1483.1	1469.1	1407.7	1352.5	1216.4	1061.6	1029.7	866.4
12.5°	1576.5	1574.1	1615.4	1615.4	1609.9	1584.3	1489.4	1364.9	1165.1	1154.2	940.3
15°	1648.8	1629.4	1665.1	1692.4	1706.4	1719.6	1641.0	1509.6	1297.3	1276.3	1019.6
17.5°	1648.8	1647.2	1683.0	1728.1	1801.2	1818.4	1775.6	1642.6	1406.9	1391.4	1106.7
20°	1620.8	1643.4	1668.2	1728.9	1808.2	1877.5	1889.9	1778.7	1528.3	1515.8	1205.5
22.5°	1751.5	1729.7	1755.4	1778.7	1840.1	1945.1	1979.3	1898.5	1655.8	1608.4	1294.9
25°	1970.8	1956.0	1937.3	1903.1	1928.8	1974.7	2026.8	1987.1	1764.7	1711.8	1381.3
27.5°	2184.7	2185.4	2145.0	2070.3	2015.1	2024.5	2085.9	2064.9	1856.5	1833.1	1440.4
30°	2488.8	2470.1	2425.0	2323.9	2215.8	2127.1	2117.0	2137.2	1973.1	1928.0	1525.1
32.5°	2716.6	2720.5	2656.8	2511.3	2363.5	2291.2	2202.6	2211.1	2047.0	2013.6	1592.8
35°	2901.0	2896.3	2851.2	2730.6	2555.6	2468.5	2348.8	2299.8	2218.9	2166.0	1696.2
37.5°	3100.1	3062.0	2988.8	2852.7	2740.7	2620.2	2503.5	2393.1	2333.2	2269.4	1784.9
40°	3180.2	3180.2	3082.2	3020.0	2887.0	2796.0	2720.5	2516.0	2472.4	2460.0	1898.5
42.5°	3123.4	3158.4	3118.0	3047.2	2992.7	2877.6	2857.4	2643.5	2644.3	2619.4	2034.6
45°	3118.0	3069.7	3036.3	3054.2	3028.5	3022.3	3073.6	2820.1	2824.7	2821.6	2217.3
47.5°	2961.6	2939.8	2989.6	3019.2	3040.2	3136.6	3284.4	3030.8	3064.3	3041.0	2428.1
50°	2806.1	2802.2	2833.3	2940.6	3031.6	3190.3	3485.0	3355.9	3465.6	3464.0	2810.0
52.5°	2379.9	2421.1	2543.2	2770.3	2995.1	3263.4	3636.7	3771.3	3980.5	4037.2	3126.5
55°	1972.3	1950.6	2131.0	2460.8	2835.6	3292.2	3806.2	4020.9	4328.9	4370.1	3451.6
57.5°	1534.5	1574.9	1717.2	2033.8	2505.9	3149.8	3930.7	4267.4	4722.4	4754.3	3828.8
60°	1144.8	1150.3	1306.6	1561.7	2067.2	2828.6	3971.1	4520.2	5173.5	5264.5	4223.9
62.5°	720.2	752.9	871.8	1123.1	1556.3	2379.1	3789.9	4673.4	5646.4	5670.5	4622.1
65°	388.1	409.1	498.5	656.4	1087.3	1799.7	3309.3	4581.7	5868.8	6011.9	4799.4
67°	287.0	290.9	332.1	419.2	727.2	1354.8	2759.4	4249.6	5969.9	6074.1	4806.4
67.5°	269.1	274.5	307.2	376.4	644.7	1247.5	2615.5	4131.3	5924.8	6036.8	4752.0
70°	230.2	231.8	239.5	259.0	361.6	750.5	1781.0	3385.5	5491.6	5598.9	4370.1
72.5°	204.5	206.1	209.2	213.1	245.0	434.0	1083.4	2605.4	4773.0	4944.1	3770.5
75°	179.7	185.1	186.7	183.5	208.4	282.3	576.3	1914.8	3893.4	3976.6	2932.1
77.5°	152.4	154.8	157.9	161.0	185.9	210.8	276.9	1292.6	2672.3	2621.8	1585.8
80°	128.3	129.1	131.4	133.8	161.0	161.0	157.1	698.4	1167.4	1116.1	535.9
82.5°	91.8	97.2	102.7	108.9	133.8	108.1	102.7	311.1	369.4	351.5	181.2
85°	35.8	43.6	67.7	74.7	84.8	58.3	68.4	134.5	154.0	152.4	67.7
87.5°	6.2	7.0	18.7	28.8	31.1	20.2	32.7	48.2	57.6	62.2	24.9
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°	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4
2.5°	704.6	680.5	651.7	623.0	604.3	574.7	572.4	554.5	552.2	546.0	549.1
5°	710.1	681.3	623.0	577.1	556.1	539.0	542.9	535.1	532.8	528.9	522.6
7.5°	752.9	696.1	609.0	569.3	553.7	546.0	546.0	536.6	529.6	534.3	539.0
10°	780.8	703.1	619.9	580.2	567.7	550.6	556.9	545.2	549.1	539.7	539.7
12.5°	826.0	742.7	642.4	596.5	576.3	560.7	567.0	553.7	550.6	551.4	549.1
15°	886.6	769.2	652.5	605.9	591.9	572.4	567.7	556.1	544.4	540.5	545.2
17.5°	943.4	801.8	659.5	611.3	588.7	567.0	561.5	546.7	542.9	531.2	521.9
20°	1011.1	840.7	668.9	616.0	577.1	555.3	541.3	526.5	513.3	506.3	509.4
22.5°	1056.2	861.0	673.5	606.6	560.0	539.7	510.2	500.1	481.4	473.6	467.4
25°	1130.1	885.8	661.9	581.0	529.6	497.0	470.5	456.5	443.3	433.2	430.1
27.5°	1148.7	904.5	634.6	537.4	481.4	447.2	424.6	407.5	399.0	383.4	380.3
30°	1203.2	885.8	594.2	484.5	435.5	400.5	378.0	365.5	345.3	341.4	332.9
32.5°	1238.2	891.3	542.9	433.2	382.6	351.5	336.8	324.3	318.9	300.2	295.5
35°	1296.5	872.6	490.8	385.8	339.1	315.0	302.5	298.7	280.8	272.2	264.4
37.5°	1333.8	861.7	438.6	332.1	291.7	281.5	285.4	269.1	247.3	231.0	225.5
40°	1399.2	857.8	379.5	287.8	259.0	256.7	269.1	238.0	198.3	184.3	176.5
42.5°	1493.3	831.4	333.6	248.1	233.3	243.4	245.8	198.3	175.8	164.1	158.7
45°	1583.5	836.8	288.5	205.3	203.0	217.8	212.3	168.0	154.8	146.2	150.9
47.5°	1756.9	864.1	244.2	171.1	182.8	196.8	164.9	150.1	137.7	131.4	132.2
50°	2025.2	890.5	205.3	156.3	172.7	178.1	141.5	136.1	135.3	122.9	122.1
52.5°	2186.2	880.4	198.3	175.0	185.1	178.1	154.0	150.1	143.9	138.4	132.2
55°	2442.1	910.0	213.1	204.5	210.0	171.1	172.7	171.1	166.4	152.4	156.3
57.5°	2645.9	929.4	232.5	228.7	225.5	178.1	180.4	181.2	178.1	171.9	177.3
60°	2925.8	968.3	252.8	253.5	254.3	193.7	197.5	202.2	201.4	199.1	200.7
62.5°	3097.7	950.4	275.3	287.8	283.9	225.5	224.8	227.9	227.9	231.8	234.1
65°	3072.1	884.3	287.0	318.1	297.9	248.9	248.9	250.4	251.2	259.0	259.8
67°	2918.1	766.1	280.8	322.8	297.9	258.2	258.2	259.8	254.3	274.5	268.3
67.5°	2846.5	731.1	275.3	318.9	295.5	257.4	257.4	258.2	253.5	273.0	266.8
70°	2475.5	542.9	237.2	282.3	273.8	250.4	250.4	245.8	241.9	267.5	262.1
72.5°	2113.1	394.3	190.5	240.3	247.3	241.1	242.7	231.0	220.1	238.0	233.3
75°	1618.5	290.1	148.5	185.1	209.2	225.5	235.7	206.1	192.1	196.8	188.2
77.5°	903.0	189.0	117.4	136.9	159.4	210.0	226.3	185.9	157.1	151.7	151.7
80°	306.4	110.4	86.3	101.9	109.7	185.9	211.5	150.9	123.7	118.2	114.3
82.5°	115.9	67.7	59.1	70.0	70.0	147.0	172.7	115.9	93.3	120.5	122.9
85°	52.9	40.4	38.9	40.4	40.4	90.2	122.1	75.4	84.0	72.3	63.8
87.5°	21.0	19.4	17.9	17.1	14.0	15.6	42.0	20.2	38.1	10.1	9.3
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)