

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: P477099

Luminaire Tested: **IFLD-S-SA2B-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477099
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

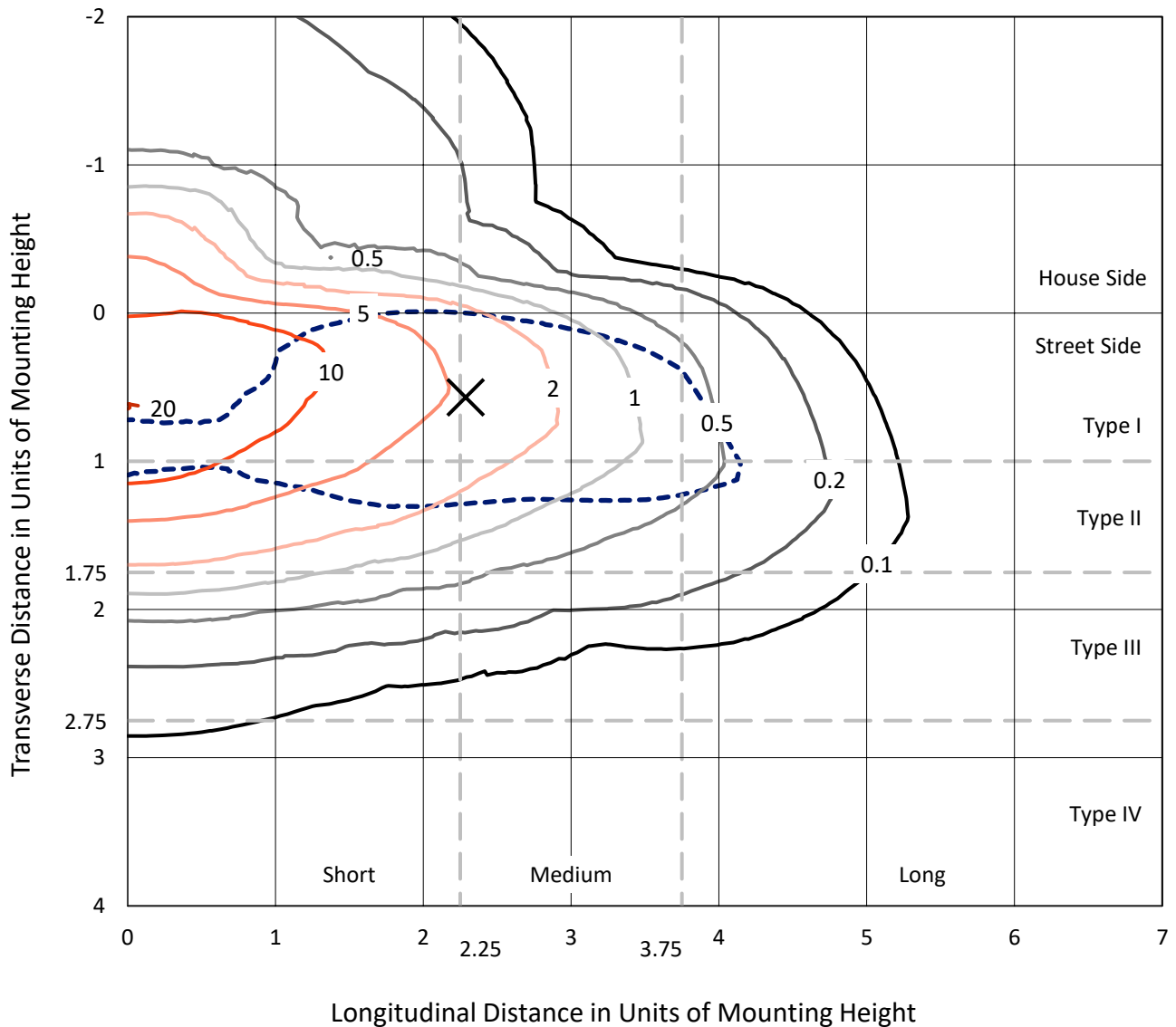
Lumens per Lamp: N/A
Luminaire Lumens: 8440.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

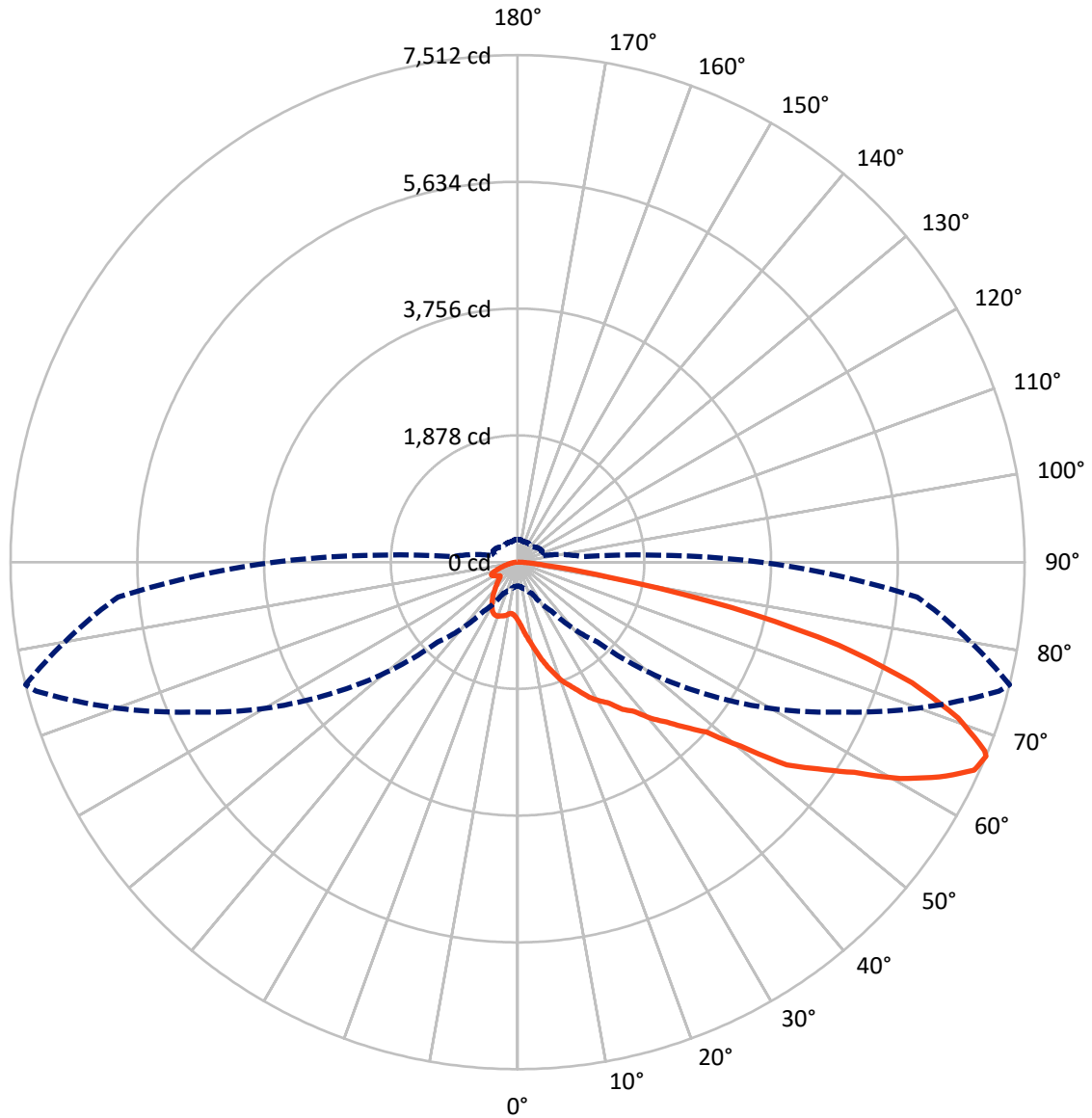
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 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	1200.7	0.0	1200.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7239.6	0.0	7239.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	8440.4	0.0	8440.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.2
10°-20°	375.2	4.4
20°-30°	697.6	8.3
30°-40°	1105.9	13.1
40°-50°	1529.6	18.1
50°-60°	1881.5	22.3
60°-70°	1750.8	20.7
70°-80°	878.5	10.4
80°-90°	121.1	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°	8440.4	100.0
0°-180°	8440.4	100.0

Coefficient of Utilization

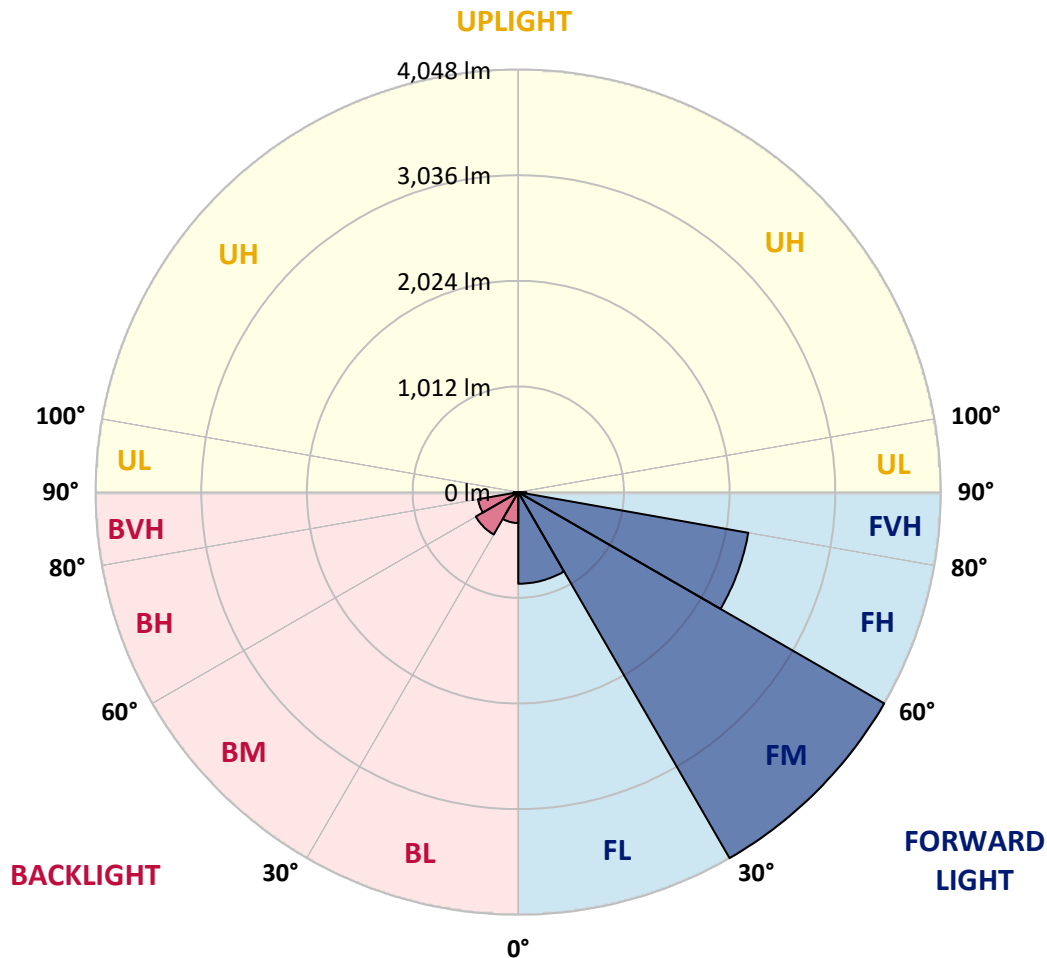


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.2	10.4			
FM (30°-60°)	4047.7	48.0			
FH (60°-80°)	2237.5	26.5			G2/5000
FVH (80°-90°)	77.2	0.9			G1/100
BL (0°-30°)	295.7	3.5	B1/500		
BM (30°-60°)	469.2	5.6	B1/1000		
BH (60°-80°)	391.9	4.6	B1/500		G1/500
BVH (80°-90°)	44.0	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°	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7
2.5°	1198.5	1184.0	1169.6	1138.8	1128.3	1099.4	1046.5	987.8	939.7	933.0	899.3
5°	1487.0	1465.9	1461.1	1443.7	1388.9	1333.1	1246.6	1152.3	1035.0	1043.6	928.2
7.5°	1703.4	1690.9	1665.0	1648.6	1615.9	1541.8	1452.4	1327.4	1178.3	1149.4	992.6
10°	1867.0	1849.6	1848.7	1834.3	1816.9	1741.0	1672.7	1504.3	1312.9	1273.5	1071.5
12.5°	1949.7	1946.8	1997.8	1997.8	1991.0	1959.3	1841.9	1688.1	1440.9	1427.4	1162.9
15°	2039.1	2015.1	2059.3	2093.0	2110.3	2126.7	2029.5	1867.0	1604.4	1578.4	1261.0
17.5°	2039.1	2037.2	2081.4	2137.2	2227.6	2248.8	2195.9	2031.4	1740.0	1720.8	1368.7
20°	2004.5	2032.4	2063.2	2138.2	2236.3	2321.9	2337.3	2199.8	1890.0	1874.6	1490.9
22.5°	2166.1	2139.2	2170.9	2199.8	2275.7	2405.6	2447.9	2347.9	2047.8	1989.1	1601.5
25°	2437.3	2419.1	2396.0	2353.7	2385.4	2442.1	2506.6	2457.5	2182.4	2117.0	1708.2
27.5°	2701.8	2702.8	2652.8	2560.5	2492.2	2503.7	2579.7	2553.7	2295.9	2267.1	1781.4
30°	3077.9	3054.8	2999.1	2874.0	2740.3	2630.7	2618.2	2643.2	2440.2	2384.4	1886.2
32.5°	3359.7	3364.6	3285.7	3105.8	2923.1	2833.6	2724.0	2734.5	2531.6	2490.2	1969.9
35°	3587.7	3581.9	3526.2	3377.1	3160.6	3052.9	2904.8	2844.2	2744.2	2678.8	2097.8
37.5°	3833.9	3786.8	3696.4	3528.1	3389.6	3240.5	3096.2	2959.6	2885.6	2806.7	2207.5
40°	3933.0	3933.0	3811.8	3734.9	3570.4	3457.9	3364.6	3111.6	3057.7	3042.3	2347.9
42.5°	3862.8	3906.1	3856.1	3768.5	3701.2	3558.9	3533.8	3269.3	3270.3	3239.5	2516.2
45°	3856.1	3796.4	3755.1	3777.2	3745.5	3737.8	3801.2	3487.7	3493.4	3489.6	2742.2
47.5°	3662.7	3635.8	3697.4	3733.9	3759.9	3879.1	4061.9	3748.3	3789.7	3760.8	3002.9
50°	3470.4	3465.6	3504.0	3636.8	3749.3	3945.5	4310.1	4150.4	4286.0	4284.1	3475.2
52.5°	2943.3	2994.2	3145.3	3426.1	3704.1	4035.9	4497.6	4664.0	4922.8	4993.0	3866.6
55°	2439.3	2412.3	2635.5	3043.3	3506.9	4071.5	4707.3	4972.8	5353.7	5404.6	4268.7
57.5°	1897.7	1947.8	2123.8	2515.2	3099.1	3895.5	4861.2	5277.7	5840.4	5879.8	4735.2
60°	1415.8	1422.6	1615.9	1931.4	2556.6	3498.3	4911.2	5590.3	6398.2	6510.8	5223.8
62.5°	890.7	931.1	1078.2	1388.9	1924.7	2942.3	4687.1	5779.8	6983.0	7012.9	5716.3
65°	480.0	505.9	616.5	811.8	1344.7	2225.7	4092.7	5666.3	7258.1	7435.1	5935.6
67°	354.9	359.7	410.7	518.4	899.3	1675.5	3412.7	5255.6	7383.2	7512.1	5944.2
67.5°	332.8	339.5	379.9	465.5	797.4	1542.8	3234.7	5109.4	7327.4	7465.9	5876.9
70°	284.7	286.6	296.3	320.3	447.3	928.2	2202.6	4186.9	6791.6	6924.4	5404.6
72.5°	253.0	254.9	258.7	263.5	303.0	536.7	1339.9	3222.2	5902.9	6114.5	4663.1
75°	222.2	228.9	230.8	227.0	257.8	349.2	712.7	2368.1	4815.0	4918.0	3626.2
77.5°	188.5	191.4	195.3	199.1	229.9	260.7	342.4	1598.6	3304.9	3242.4	1961.2
80°	158.7	159.7	162.6	165.4	199.1	199.1	194.3	863.7	1443.7	1380.3	662.7
82.5°	113.5	120.2	127.0	134.7	165.4	133.7	127.0	384.7	456.9	434.8	224.1
85°	44.2	53.9	83.7	92.3	104.8	72.1	84.6	166.4	190.4	188.5	83.7
87.5°	7.7	8.7	23.1	35.6	38.5	25.0	40.4	59.6	71.2	76.9	30.8
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°	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7	863.7
2.5°	871.4	841.6	806.0	770.4	747.4	710.8	707.9	685.8	682.9	675.2	679.1
5°	878.2	842.6	770.4	713.7	687.7	666.6	671.4	661.8	658.9	654.1	646.4
7.5°	931.1	860.9	753.1	704.1	684.8	675.2	675.2	663.7	655.0	660.8	666.6
10°	965.7	869.5	766.6	717.5	702.2	681.0	688.7	674.3	679.1	667.5	667.5
12.5°	1021.5	918.6	794.5	737.7	712.7	693.5	701.2	684.8	681.0	682.0	679.1
15°	1096.5	951.3	807.0	749.3	732.0	707.9	702.2	687.7	673.3	668.5	674.3
17.5°	1166.7	991.7	815.7	756.0	728.1	701.2	694.5	676.2	671.4	656.9	645.4
20°	1250.4	1039.8	827.2	761.8	713.7	686.8	669.4	651.2	634.8	626.2	630.0
22.5°	1306.2	1064.8	833.0	750.2	692.5	667.5	631.0	618.5	595.4	585.8	578.1
25°	1397.6	1095.5	818.5	718.5	655.0	614.6	581.9	564.6	548.3	535.8	531.9
27.5°	1420.7	1118.6	784.9	664.6	595.4	553.1	525.2	504.0	493.4	474.2	470.3
30°	1488.0	1095.5	734.9	599.2	538.6	495.4	467.5	452.1	427.1	422.3	411.7
32.5°	1531.3	1102.3	671.4	535.8	473.2	434.8	416.5	401.1	394.4	371.3	365.5
35°	1603.4	1079.2	606.9	477.1	419.4	389.6	374.2	369.4	347.2	336.6	327.0
37.5°	1649.6	1065.7	542.5	410.7	360.7	348.2	353.0	332.8	305.9	285.7	278.9
40°	1730.4	1060.9	469.4	355.9	320.3	317.4	332.8	294.3	245.3	228.0	218.3
42.5°	1846.8	1028.2	412.6	306.8	288.6	301.1	303.9	245.3	217.4	203.0	196.2
45°	1958.3	1035.0	356.8	253.9	251.0	269.3	262.6	207.8	191.4	180.8	186.6
47.5°	2172.8	1068.6	302.0	211.6	226.0	243.3	203.9	185.6	170.2	162.6	163.5
50°	2504.7	1101.3	253.9	193.3	213.5	220.3	175.1	168.3	167.4	152.0	151.0
52.5°	2703.8	1088.8	245.3	216.4	228.9	220.3	190.4	185.6	177.9	171.2	163.5
55°	3020.2	1125.4	263.5	253.0	259.7	211.6	213.5	211.6	205.8	188.5	193.3
57.5°	3272.2	1149.4	287.6	282.8	278.9	220.3	223.1	224.1	220.3	212.6	219.3
60°	3618.5	1197.5	312.6	313.6	314.5	239.5	244.3	250.1	249.1	246.2	248.2
62.5°	3831.1	1175.4	340.5	355.9	351.1	278.9	278.0	281.8	281.8	286.6	289.5
65°	3799.3	1093.6	354.9	393.4	368.4	307.8	307.8	309.7	310.7	320.3	321.3
67°	3608.9	947.4	347.2	399.2	368.4	319.3	319.3	321.3	314.5	339.5	331.8
67.5°	3520.4	904.1	340.5	394.4	365.5	318.4	318.4	319.3	313.6	337.6	329.9
70°	3061.6	671.4	293.4	349.2	338.6	309.7	309.7	303.9	299.1	330.9	324.1
72.5°	2613.4	487.7	235.7	297.2	305.9	298.2	300.1	285.7	272.2	294.3	288.6
75°	2001.6	358.8	183.7	228.9	258.7	278.9	291.4	254.9	237.6	243.3	232.8
77.5°	1116.7	233.7	145.2	169.3	197.2	259.7	279.9	229.9	194.3	187.6	187.6
80°	379.0	136.6	106.8	126.0	135.6	229.9	261.6	186.6	152.9	146.2	141.4
82.5°	143.3	83.7	73.1	86.6	86.6	181.8	213.5	143.3	115.4	149.1	152.0
85°	65.4	50.0	48.1	50.0	50.0	111.6	151.0	93.3	103.9	89.5	78.9
87.5°	26.0	24.0	22.1	21.2	17.3	19.2	51.9	25.0	47.1	12.5	11.5
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)