

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: P480129

Luminaire Tested: **IFLD-M-SA4D-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480129  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

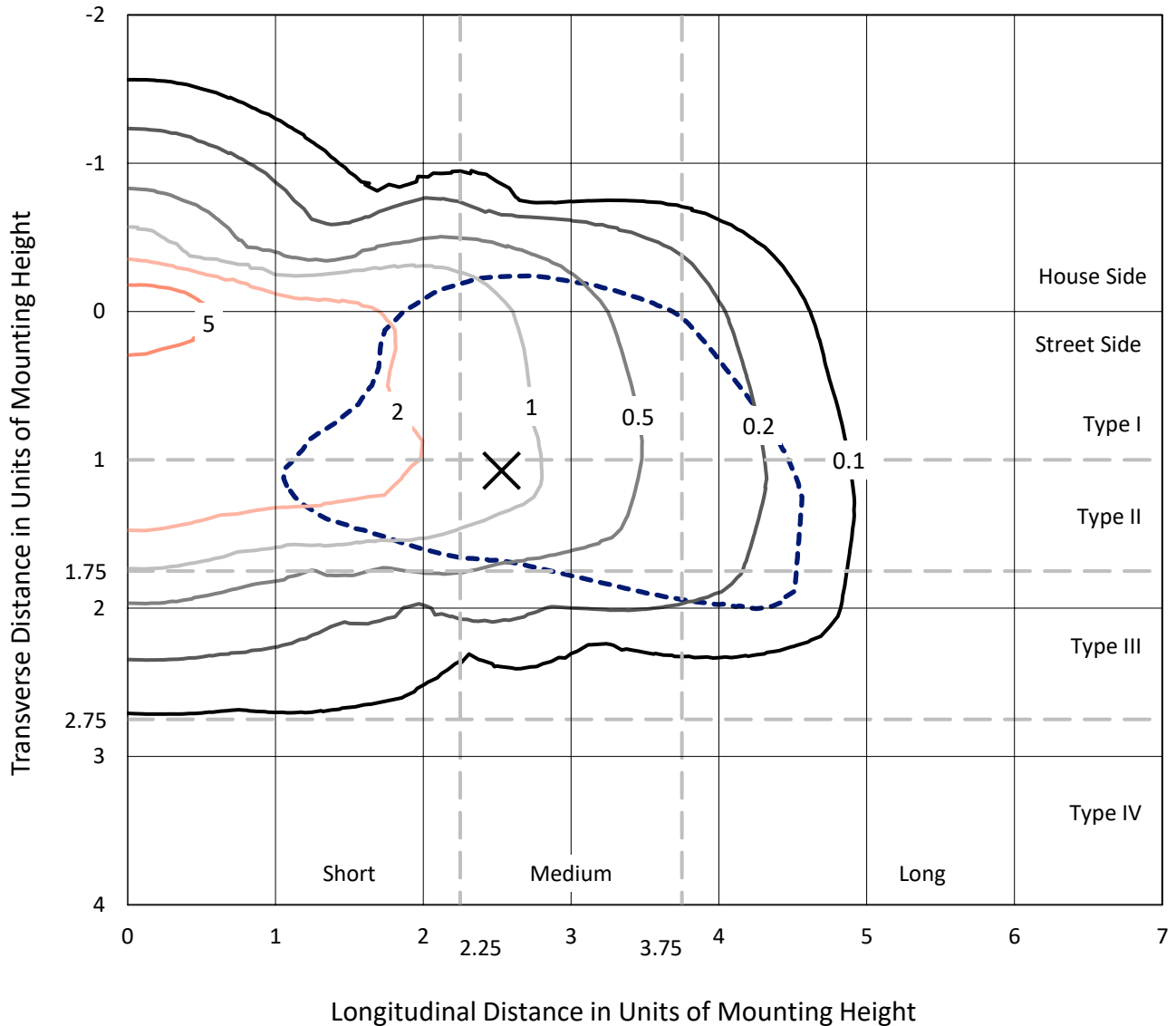
Lumens per Lamp: N/A  
Luminaire Lumens: 31191.9 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7  
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

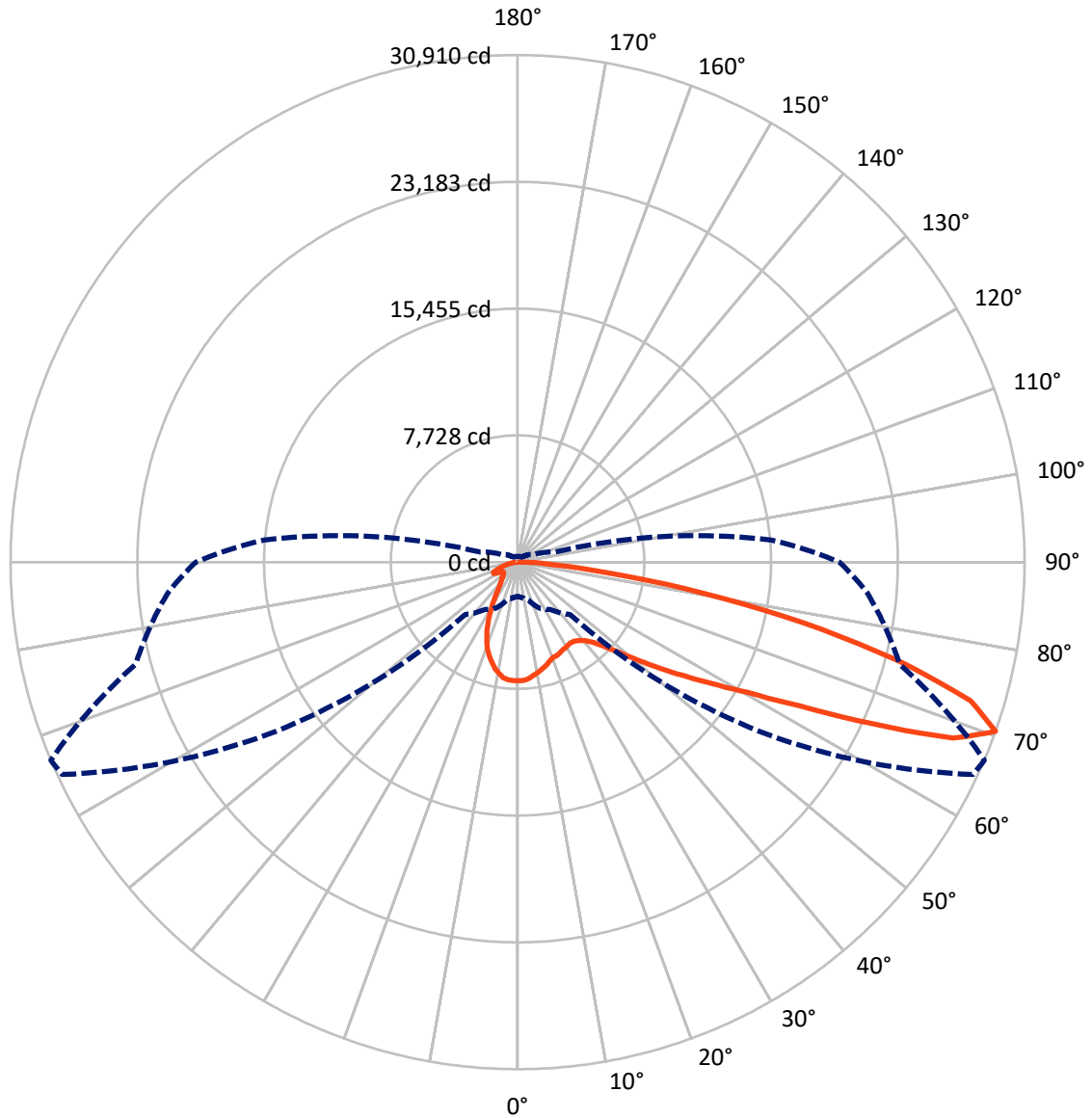
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	6074.9	0.0	6074.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	25117.0	0.0	25117.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	31191.9	0.0	31191.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.0	2.0
10°-20°	1508.9	4.8
20°-30°	2037.7	6.5
30°-40°	2726.6	8.7
40°-50°	4009.4	12.9
50°-60°	6249.6	20.0
60°-70°	7698.5	24.7
70°-80°	5439.7	17.4
80°-90°	891.6	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°	31191.9	100.0
0°-180°	31191.9	100.0



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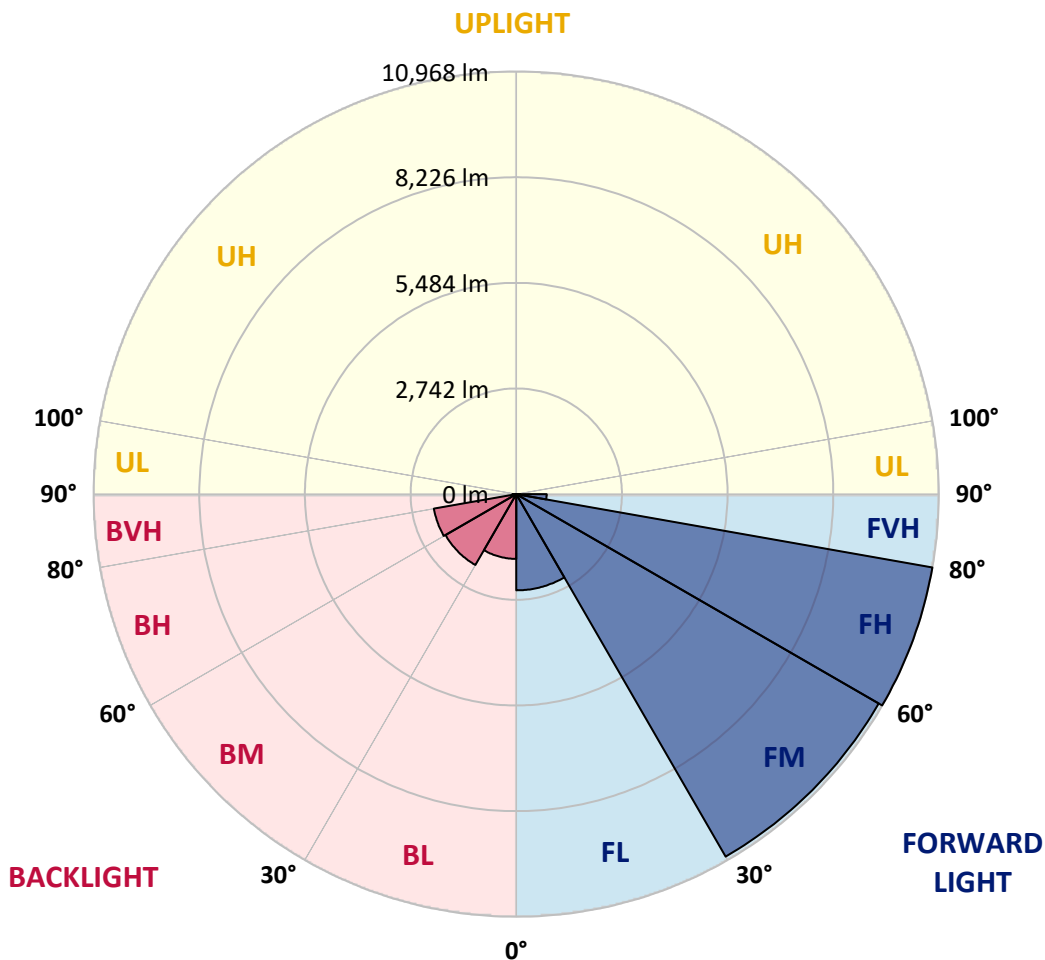
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.7	8.0			
FM (30°-60°)	10863.5	34.8			
FH (60°-80°)	10968.1	35.2			G4/12000
FVH (80°-90°)	788.7	2.5			G5
BL (0°-30°)	1679.9	5.4	B3/2500		
BM (30°-60°)	2122.1	6.8	B2/2500		
BH (60°-80°)	2170.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8
2.5°	6723.5	6799.5	6827.1	6868.6	6975.6	7055.1	7103.4	7158.7	7224.3	7279.5	7314.1
5°	6253.9	6295.3	6361.0	6405.8	6540.5	6754.6	6899.7	7134.5	7127.6	7213.9	7345.1
7.5°	5798.1	5839.5	5870.6	5960.4	6153.8	6347.1	6613.0	6992.9	6965.3	7165.6	7369.3
10°	5514.9	5483.8	5494.2	5646.1	5798.1	6015.6	6350.6	6737.4	6837.5	7148.3	7438.4
12.5°	5249.0	5214.5	5297.3	5394.0	5580.5	5777.3	6177.9	6526.7	6678.7	7086.1	7469.5
15°	5083.2	5059.1	5162.7	5204.1	5425.1	5659.9	5943.1	6367.9	6533.6	7010.2	7421.1
17.5°	4990.0	5010.7	5048.7	5138.5	5280.1	5480.4	5791.2	6260.8	6333.3	6916.9	7410.8
20°	5007.3	5031.4	5034.9	5072.9	5169.6	5325.0	5642.7	6146.9	6195.2	6899.7	7438.4
22.5°	5145.4	5110.9	5124.7	5100.5	5128.1	5249.0	5528.7	5994.9	6181.4	6754.6	7379.7
25°	5352.6	5304.2	5297.3	5214.5	5162.7	5197.2	5508.0	5956.9	6077.8	6709.7	7376.2
27.5°	5718.6	5646.1	5646.1	5521.8	5311.2	5255.9	5449.3	5894.8	6001.8	6668.3	7296.8
30°	6070.9	6070.9	6074.3	5898.2	5663.4	5390.6	5473.5	5870.6	5939.7	6544.0	7189.7
32.5°	6499.1	6488.7	6471.5	6385.1	6022.5	5615.0	5590.9	5839.5	5874.0	6502.5	7158.7
35°	6916.9	6889.3	7024.0	6948.0	6578.5	6053.6	5711.7	5853.3	5929.3	6440.4	7062.0
37.5°	7231.2	7248.4	7528.2	7576.5	7258.8	6550.9	6053.6	5991.5	6064.0	6530.2	7062.0
40°	7638.7	7707.7	7970.2	8132.5	7939.1	7207.0	6595.8	6222.8	6274.6	6730.5	7213.9
42.5°	8173.9	8232.6	8567.6	8778.3	8723.0	8042.7	7131.0	6706.3	6664.8	7065.4	7441.8
45°	8881.9	8892.2	9230.6	9520.7	9634.7	8916.4	7980.5	7317.5	7283.0	7642.1	7859.7
47.5°	9724.5	9714.1	9924.7	10235.5	10542.9	9959.3	8957.8	8246.4	8122.1	8467.5	8553.8
50°	10539.4	10494.5	10542.9	10940.0	11530.5	11264.6	10145.8	9382.6	9258.3	9448.2	9596.7
52.5°	10988.4	11043.6	10912.4	11437.3	12580.3	12808.2	11720.5	10739.7	10632.7	10725.9	10984.9
55°	10674.1	10788.1	10701.7	11199.0	13039.6	14690.3	13757.9	12311.0	12172.8	12138.3	12563.1
57.5°	9337.7	9544.9	9562.2	10349.5	12880.8	16147.6	16624.1	14165.4	13958.2	13606.0	14044.5
60°	7169.0	7376.2	7535.1	8467.5	11520.2	17017.8	19946.2	16803.7	16119.9	15208.3	15470.7
62.5°	5024.5	5166.1	5325.0	5898.2	8881.9	16506.7	22819.3	20519.4	19259.0	16896.9	17225.0
65°	3660.5	3771.0	3933.3	4271.7	5456.2	13657.7	24152.3	24932.7	23737.9	19044.9	19003.4
67.5°	2755.7	2824.8	3038.9	3581.1	3781.3	8436.4	22771.0	29594.7	28627.7	21431.1	20433.1
70°	2085.8	2144.5	2344.8	3087.2	3532.7	4523.8	17964.0	30634.1	30910.4	24107.4	21393.1
72.5°	1436.6	1502.2	1726.6	2572.7	3363.5	3588.0	11275.0	27830.0	28876.4	25209.0	20364.0
75°	880.6	925.5	1056.7	1951.1	3339.3	3508.5	6205.6	22805.5	23914.0	23292.4	17815.5
77.5°	621.6	618.1	642.3	1143.0	2893.9	3529.3	3826.2	16710.5	17787.9	17166.3	12090.0
80°	452.4	455.8	480.0	683.8	1964.9	3588.0	3014.7	11192.1	11513.3	8950.9	4769.0
82.5°	272.8	286.6	345.3	462.7	1181.0	3239.2	2786.8	6219.4	5818.8	2873.1	1312.2
85°	145.0	145.0	203.7	293.5	628.5	2417.3	2683.2	2959.5	2479.5	890.9	486.9
87.5°	34.5	34.5	58.7	117.4	252.1	1156.9	1830.2	1177.6	942.7	300.4	200.3
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°	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8	7220.8
2.5°	7300.2	7258.8	7310.6	7207.0	7124.1	7127.6	6999.8	6992.9	6975.6	6885.9	6916.9
5°	7383.1	7348.6	7289.9	7175.9	6992.9	6809.9	6699.4	6557.8	6499.1	6468.0	6481.8
7.5°	7462.6	7400.4	7231.2	7072.3	6789.2	6443.8	6243.5	6053.6	5811.9	5784.3	5735.9
10°	7483.3	7352.0	7134.5	6796.1	6419.7	6036.3	5580.5	5228.3	5041.8	4896.8	4841.5
12.5°	7452.2	7396.9	6979.1	6544.0	5974.2	5373.3	4841.5	4344.2	3998.9	3819.3	3771.0
15°	7448.7	7352.0	6806.4	6160.7	5432.0	4648.1	3891.9	3294.4	2931.8	2783.3	2783.3
17.5°	7452.2	7220.8	6602.7	5773.9	4793.2	3733.0	2900.8	2410.4	2210.1	2189.4	2206.7
20°	7383.1	7124.1	6388.6	5318.1	3992.0	2804.1	2106.5	1906.2	1906.2	1933.8	1944.2
22.5°	7321.0	6979.1	6050.2	4755.2	3177.0	2030.5	1712.8	1654.1	1719.7	1768.1	1788.8
25°	7234.6	6858.2	5704.8	4171.6	2417.3	1636.9	1488.4	1502.2	1564.3	1650.7	1643.8
27.5°	7110.3	6647.6	5293.9	3494.7	1799.2	1412.4	1374.4	1381.3	1446.9	1484.9	1478.0
30°	6968.7	6433.5	4914.0	2821.3	1426.2	1295.0	1291.5	1308.8	1319.2	1339.9	1336.4
32.5°	6789.2	6150.3	4510.0	2192.8	1284.6	1229.4	1215.6	1205.2	1215.6	1212.1	1201.7
35°	6661.4	5998.4	4099.1	1671.4	1205.2	1170.7	1160.3	1143.0	1129.2	1108.5	1105.1
37.5°	6626.9	5846.4	3667.4	1364.0	1143.0	1125.8	1091.2	1060.2	1042.9	1032.5	1025.6
40°	6606.1	5746.3	3246.1	1198.3	1091.2	1074.0	1032.5	991.1	973.8	963.5	966.9
42.5°	6678.7	5691.0	2817.9	1115.4	1046.3	1015.3	970.4	922.0	918.6	911.7	922.0
45°	6934.2	5760.1	2420.8	1056.7	1001.5	949.7	890.9	866.8	863.3	856.4	863.3
47.5°	7514.4	5932.7	2082.3	1018.7	953.1	908.2	846.1	811.5	808.1	804.6	804.6
50°	8315.5	6464.6	1799.2	973.8	922.0	859.9	801.2	763.2	756.3	742.5	742.5
52.5°	9572.5	7359.0	1630.0	949.7	866.8	815.0	752.8	711.4	694.1	680.3	680.3
55°	10988.4	8467.5	1598.9	908.2	808.1	759.7	704.5	663.0	645.8	628.5	621.6
57.5°	12601.0	9935.1	1819.9	880.6	766.6	704.5	642.3	604.3	590.5	573.2	566.3
60°	14103.2	11399.3	2507.1	839.1	728.6	652.7	590.5	552.5	535.3	518.0	518.0
62.5°	15840.2	13212.3	3670.8	839.1	694.1	597.4	535.3	507.6	497.3	480.0	476.6
65°	17894.9	15087.4	4520.4	890.9	683.8	549.1	483.5	455.8	445.5	435.1	431.7
67.5°	19459.3	16164.8	3888.4	1029.1	728.6	507.6	431.7	414.4	407.5	397.1	390.2
70°	19625.0	15508.7	2344.8	1112.0	773.5	466.2	386.8	369.5	369.5	359.1	352.2
72.5°	18136.7	13761.3	1578.2	991.1	701.0	417.8	341.9	328.1	321.2	314.2	310.8
75°	15177.2	11672.1	1246.6	790.8	538.7	345.3	297.0	283.2	272.8	269.4	262.4
77.5°	10194.1	7586.9	922.0	618.1	397.1	279.7	248.6	234.8	224.5	221.0	210.7
80°	3916.0	2890.4	594.0	448.9	279.7	221.0	196.8	183.0	176.1	165.8	158.9
82.5°	1153.4	935.8	331.5	276.3	179.6	151.9	141.6	131.2	120.9	110.5	107.1
85°	476.6	428.2	203.7	145.0	110.5	89.8	82.9	72.5	62.2	55.3	48.3
87.5°	221.0	183.0	93.2	55.3	38.0	20.7	10.4	3.5	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)