

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: P480281

Luminaire Tested: **IFLD-S-SA6E-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480281  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

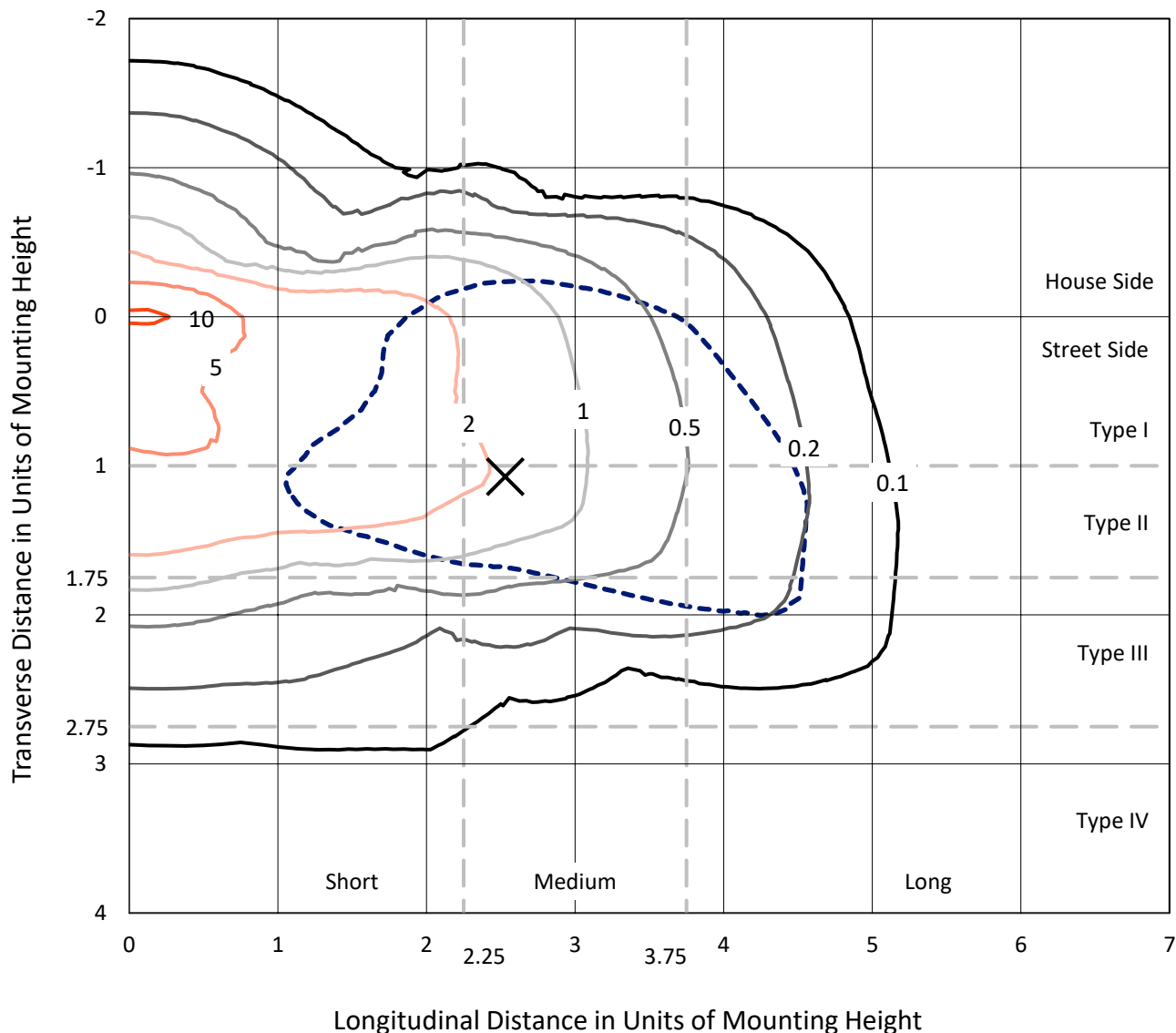
Lumens per Lamp: N/A  
Luminaire Lumens: 41920.9 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

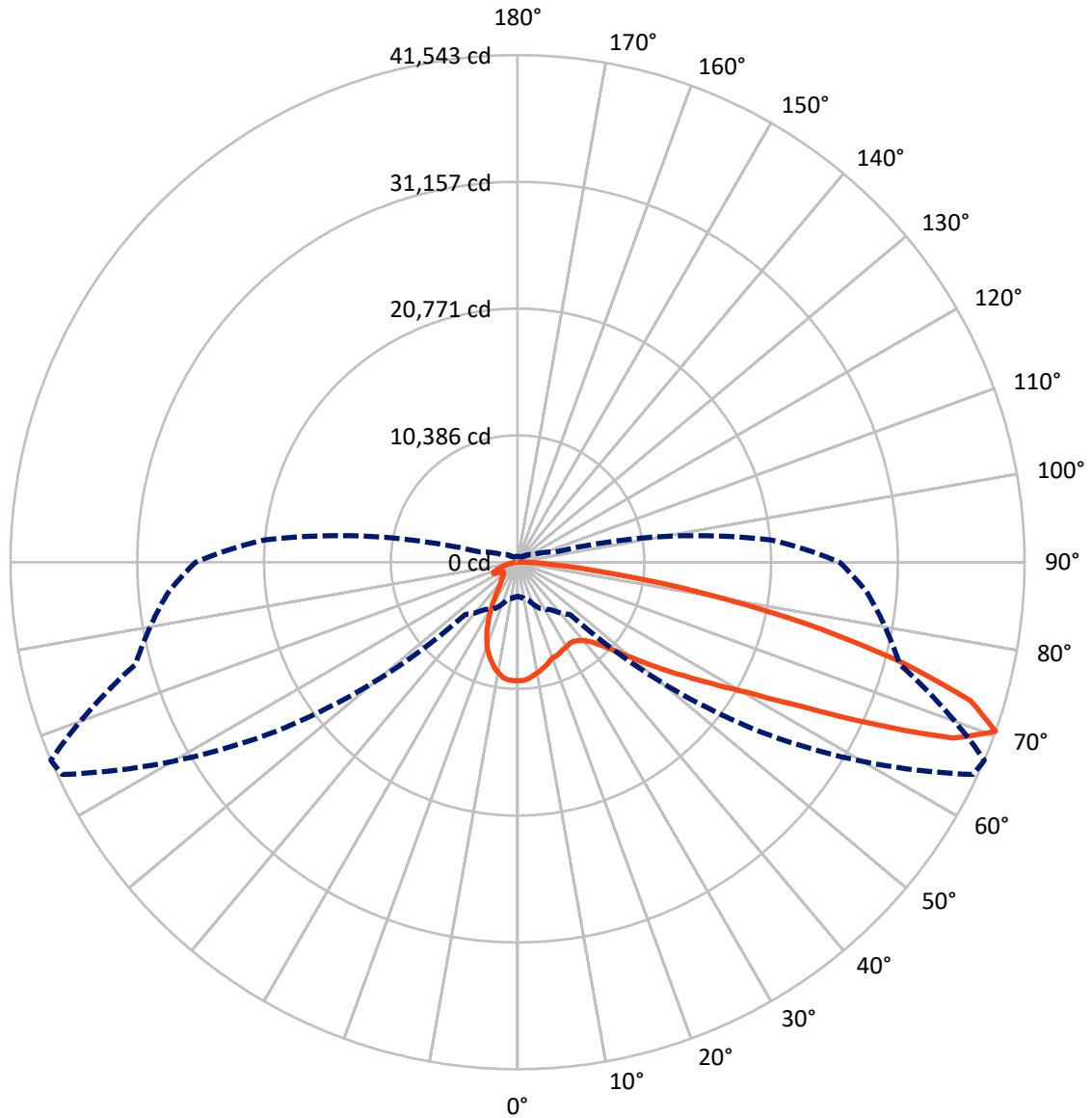
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	8164.5	0.0	8164.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	33756.4	0.0	33756.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	41920.9	0.0	41920.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.7	2.0
10°-20°	2027.9	4.8
20°-30°	2738.6	6.5
30°-40°	3664.4	8.7
40°-50°	5388.5	12.9
50°-60°	8399.3	20.0
60°-70°	10346.5	24.7
70°-80°	7310.8	17.4
80°-90°	1198.3	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°	41920.9	100.0
0°-180°	41920.9	100.0

**Coefficient of Utilization**

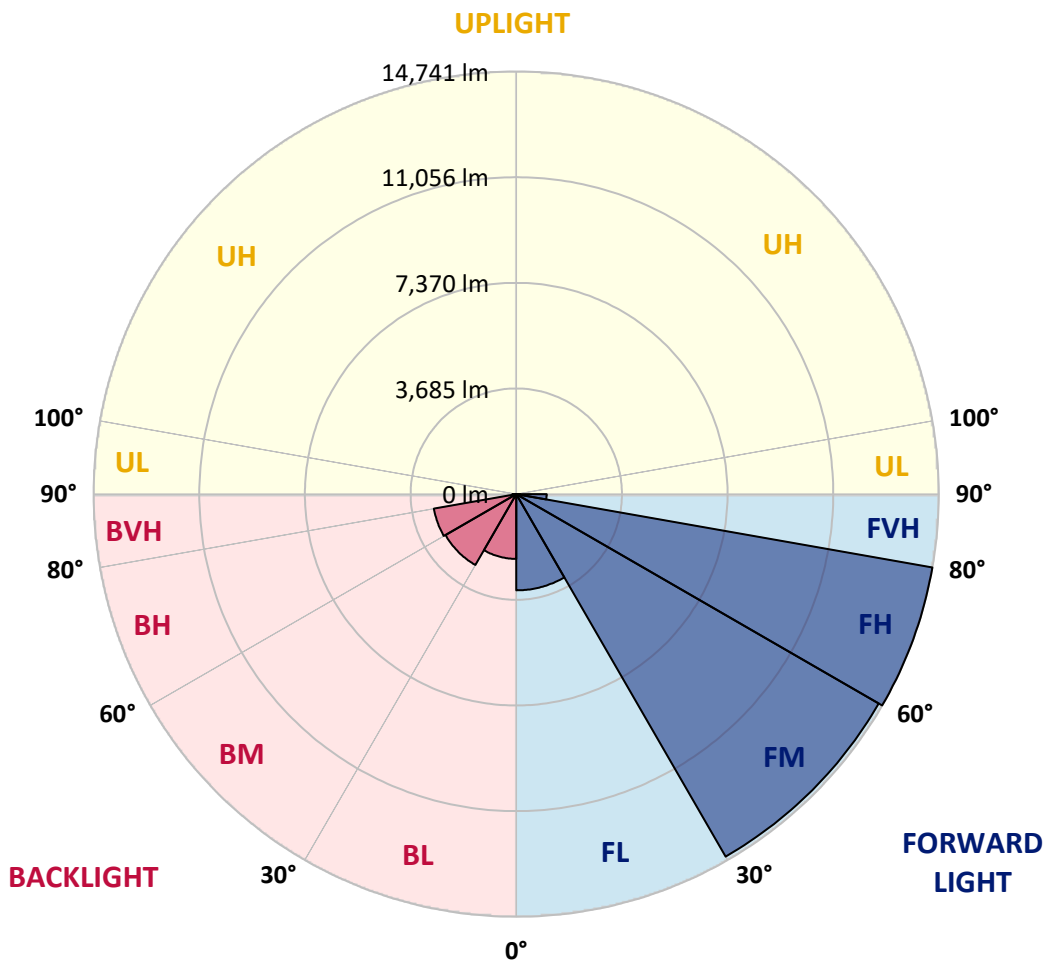


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3355.5	8.0			
FM (30°-60°)	14600.2	34.8			
FH (60°-80°)	14740.8	35.2			G5
FVH (80°-90°)	1060.0	2.5			G5
BL (0°-30°)	2257.8	5.4	B3/2500		
BM (30°-60°)	2852.0	6.8	B3/5000		
BH (60°-80°)	2916.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	138.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6
2.5°	9036.2	9138.4	9175.5	9231.2	9375.0	9481.8	9546.8	9621.0	9709.2	9783.5	9829.9
5°	8405.1	8460.7	8548.9	8609.3	8790.3	9078.0	9272.9	9588.5	9579.3	9695.3	9871.6
7.5°	7792.4	7848.1	7889.9	8010.6	8270.5	8530.4	8887.7	9398.3	9361.1	9630.3	9904.1
10°	7411.9	7370.1	7384.0	7588.2	7792.4	8084.8	8535.0	9054.8	9189.4	9607.1	9997.0
12.5°	7054.5	7008.1	7119.5	7249.4	7500.0	7764.6	8303.0	8771.7	8975.9	9523.6	10038.7
15°	6831.7	6799.2	6938.5	6994.2	7291.2	7606.8	7987.4	8558.2	8781.0	9421.5	9973.8
17.5°	6706.4	6734.3	6785.3	6906.0	7096.3	7365.4	7783.1	8414.3	8511.8	9296.1	9959.8
20°	6729.6	6762.1	6766.7	6817.8	6947.7	7156.6	7583.6	8261.2	8326.2	9272.9	9997.0
22.5°	6915.3	6868.8	6887.4	6854.9	6892.1	7054.5	7430.4	8057.0	8307.6	9078.0	9918.1
25°	7193.7	7128.7	7119.5	7008.1	6938.5	6984.9	7402.6	8005.9	8168.4	9017.7	9913.4
27.5°	7685.7	7588.2	7588.2	7421.1	7138.0	7063.8	7323.7	7922.4	8066.3	8962.0	9806.7
30°	8159.1	8159.1	8163.7	7927.0	7611.4	7244.8	7356.2	7889.9	7982.7	8794.9	9662.8
32.5°	8734.6	8720.7	8697.4	8581.4	8094.1	7546.4	7514.0	7848.1	7894.5	8739.2	9621.0
35°	9296.1	9259.0	9440.0	9337.9	8841.3	8135.9	7676.4	7866.7	7968.8	8655.7	9491.1
37.5°	9718.5	9741.7	10117.6	10182.6	9755.6	8804.2	8135.9	8052.3	8149.8	8776.3	9491.1
40°	10266.1	10359.0	10711.7	10929.8	10669.9	9686.0	8864.5	8363.3	8432.9	9045.5	9695.3
42.5°	10985.5	11064.4	11514.6	11797.7	11723.5	10809.2	9583.9	9013.0	8957.3	9495.7	10001.6
45°	11936.9	11950.9	12405.7	12795.5	12948.7	11983.4	10725.6	9834.5	9788.1	10270.8	10563.2
47.5°	13069.4	13055.4	13338.6	13756.3	14169.3	13385.0	12039.0	11083.0	10915.9	11380.0	11496.0
50°	14164.7	14104.3	14169.3	14703.0	15496.7	15139.3	13635.6	12609.9	12442.8	12698.1	12897.7
52.5°	14768.0	14842.3	14665.9	15371.4	16907.6	17213.9	15751.9	14433.9	14290.0	14415.3	14763.4
55°	14345.7	14498.8	14382.8	15051.1	17524.8	19743.3	18490.2	16545.6	16359.9	16313.5	16884.4
57.5°	12549.6	12828.0	12851.2	13909.4	17311.3	21701.8	22342.3	19037.8	18759.4	18286.0	18875.4
60°	9634.9	9913.4	10126.9	11380.0	15482.8	22871.4	26807.1	22583.7	21664.7	20439.5	20792.2
62.5°	6752.8	6943.1	7156.6	7927.0	11936.9	22184.5	30668.5	27577.5	25883.5	22709.0	23149.9
65°	4919.6	5068.1	5286.2	5741.1	7333.0	18355.6	32459.9	33508.8	31903.0	25595.7	25540.0
67.5°	3703.6	3796.4	4084.2	4812.8	5082.0	11338.2	30603.5	39774.3	38474.8	28802.7	27461.5
70°	2803.2	2882.1	3151.3	4149.2	4747.9	6079.9	24143.1	41171.3	41542.6	32399.6	28751.7
72.5°	1930.7	2018.9	2320.6	3457.6	4520.4	4822.1	15153.2	37402.7	38809.0	33880.1	27368.6
75°	1183.5	1243.8	1420.2	2622.2	4488.0	4715.4	8340.1	30649.9	32139.7	31304.3	23943.5
77.5°	835.4	830.8	863.2	1536.2	3889.3	4743.2	5142.4	22458.3	23906.4	23071.0	16248.5
80°	608.0	612.6	645.1	918.9	2640.8	4822.1	4051.7	15041.8	15473.5	12029.8	6409.4
82.5°	366.6	385.2	464.1	621.9	1587.3	4353.4	3745.4	8358.6	7820.3	3861.4	1763.6
85°	194.9	194.9	273.8	394.5	844.7	3248.8	3606.1	3977.4	3332.3	1197.4	654.4
87.5°	46.4	46.4	78.9	157.8	338.8	1554.8	2459.8	1582.6	1267.0	403.8	269.2
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°	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6	9704.6
2.5°	9811.3	9755.6	9825.2	9686.0	9574.6	9579.3	9407.5	9398.3	9375.0	9254.4	9296.1
5°	9922.7	9876.3	9797.4	9644.2	9398.3	9152.3	9003.8	8813.5	8734.6	8692.8	8711.4
7.5°	10029.4	9945.9	9718.5	9505.0	9124.4	8660.3	8391.1	8135.9	7811.0	7773.9	7708.9
10°	10057.3	9880.9	9588.5	9133.7	8627.8	8112.7	7500.0	7026.6	6776.0	6581.1	6506.8
12.5°	10015.5	9941.3	9379.7	8794.9	8029.1	7221.6	6506.8	5838.5	5374.4	5133.1	5068.1
15°	10010.9	9880.9	9147.6	8279.7	7300.5	6246.9	5230.5	4427.6	3940.3	3740.7	3740.7
17.5°	10015.5	9704.6	8873.8	7759.9	6441.9	5017.0	3898.5	3239.5	2970.3	2942.5	2965.7
20°	9922.7	9574.6	8586.1	7147.3	5365.1	3768.6	2831.1	2561.9	2561.9	2599.0	2612.9
22.5°	9839.2	9379.7	8131.2	6390.8	4269.8	2729.0	2302.0	2223.1	2311.3	2376.2	2404.1
25°	9723.1	9217.2	7667.1	5606.5	3248.8	2199.9	2000.3	2018.9	2102.4	2218.5	2209.2
27.5°	9556.1	8934.1	7114.8	4696.8	2418.0	1898.2	1847.2	1856.4	1944.6	1995.7	1986.4
30°	9365.8	8646.4	6604.3	3791.8	1916.8	1740.4	1735.8	1759.0	1772.9	1800.8	1796.1
32.5°	9124.4	8265.8	6061.3	2947.1	1726.5	1652.2	1633.7	1619.7	1633.7	1629.0	1615.1
35°	8952.7	8061.6	5509.0	2246.3	1619.7	1573.3	1559.4	1536.2	1517.6	1489.8	1485.2
37.5°	8906.3	7857.4	4928.9	1833.2	1536.2	1513.0	1466.6	1424.8	1401.6	1387.7	1378.4
40°	8878.4	7722.8	4362.6	1610.5	1466.6	1443.4	1387.7	1332.0	1308.8	1294.9	1299.5
42.5°	8975.9	7648.6	3787.1	1499.1	1406.3	1364.5	1304.2	1239.2	1234.5	1225.3	1239.2
45°	9319.4	7741.4	3253.4	1420.2	1345.9	1276.3	1197.4	1164.9	1160.3	1151.0	1160.3
47.5°	10099.1	7973.4	2798.6	1369.1	1280.9	1220.6	1137.1	1090.7	1086.0	1081.4	1081.4
50°	11175.8	8688.2	2418.0	1308.8	1239.2	1155.6	1076.7	1025.7	1016.4	997.8	997.8
52.5°	12865.2	9890.2	2190.6	1276.3	1164.9	1095.3	1011.8	956.1	932.9	914.3	914.3
55°	14768.0	11380.0	2148.8	1220.6	1086.0	1021.0	946.8	891.1	867.9	844.7	835.4
57.5°	16935.4	13352.5	2445.9	1183.5	1030.3	946.8	863.2	812.2	793.6	770.4	761.1
60°	18954.3	15320.3	3369.4	1127.8	979.3	877.2	793.6	742.6	719.4	696.2	696.2
62.5°	21288.8	17756.9	4933.5	1127.8	932.9	802.9	719.4	682.2	668.3	645.1	640.5
65°	24050.2	20277.0	6075.2	1197.4	918.9	737.9	649.8	612.6	598.7	584.8	580.1
67.5°	26152.7	21725.0	5225.9	1383.1	979.3	682.2	580.1	556.9	547.7	533.7	524.4
70°	26375.4	20843.2	3151.3	1494.4	1039.6	626.6	519.8	496.6	496.6	482.7	473.4
72.5°	24375.1	18494.8	2121.0	1332.0	942.1	561.6	459.5	440.9	431.6	422.3	417.7
75°	20397.7	15687.0	1675.4	1062.8	724.0	464.1	399.1	380.6	366.6	362.0	352.7
77.5°	13700.6	10196.5	1239.2	830.8	533.7	375.9	334.2	315.6	301.7	297.0	283.1
80°	5263.0	3884.6	798.3	603.3	375.9	297.0	264.5	246.0	236.7	222.8	213.5
82.5°	1550.1	1257.7	445.5	371.3	241.3	204.2	190.3	176.4	162.4	148.5	143.9
85°	640.5	575.5	273.8	194.9	148.5	120.7	111.4	97.5	83.5	74.3	65.0
87.5°	297.0	246.0	125.3	74.3	51.1	27.8	13.9	4.6	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)