

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: P480678

Luminaire Tested: **IFLD-L-SA7B-830-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

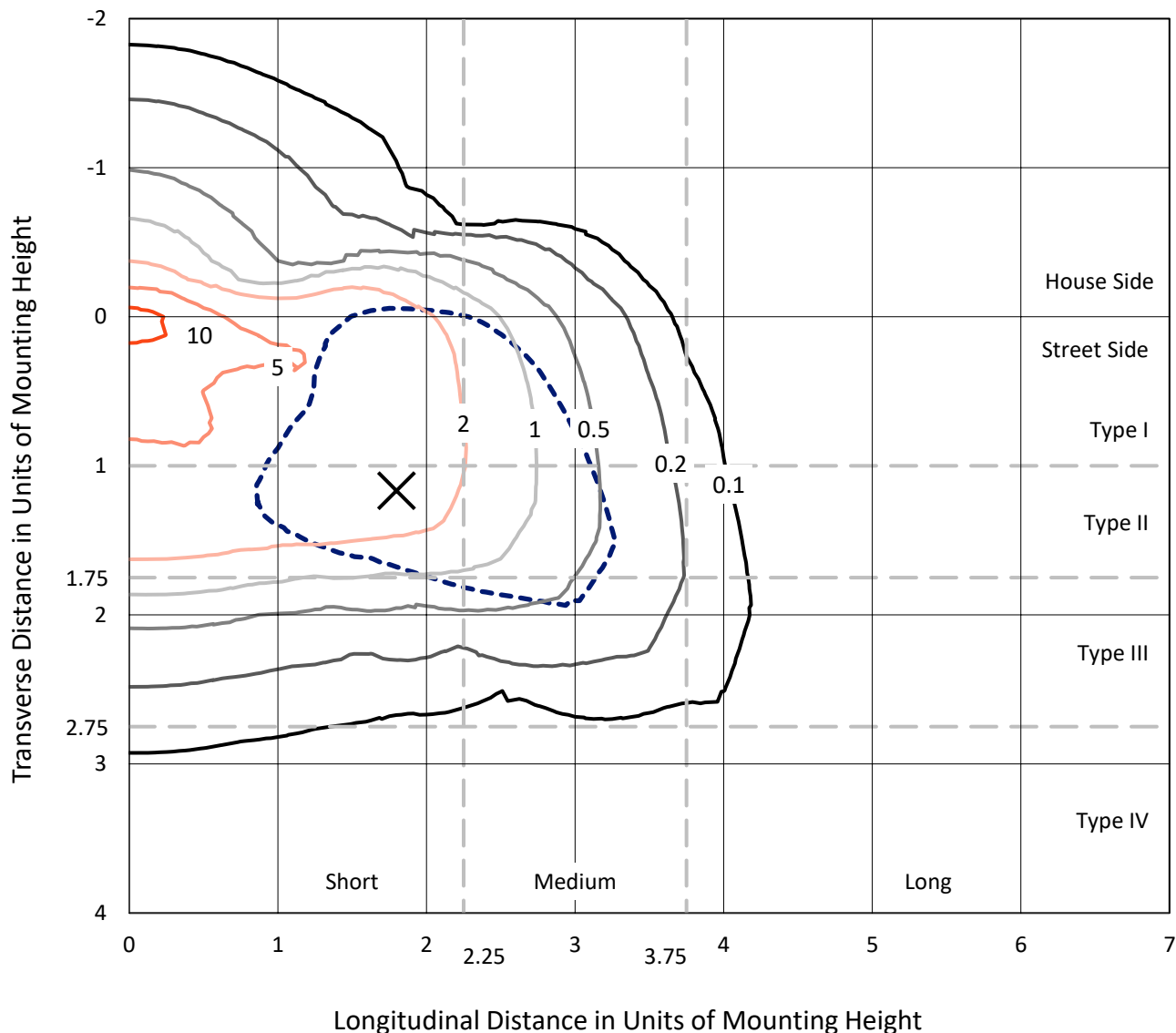
Lumens per Lamp: N/A
Luminaire Lumens: 27921.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

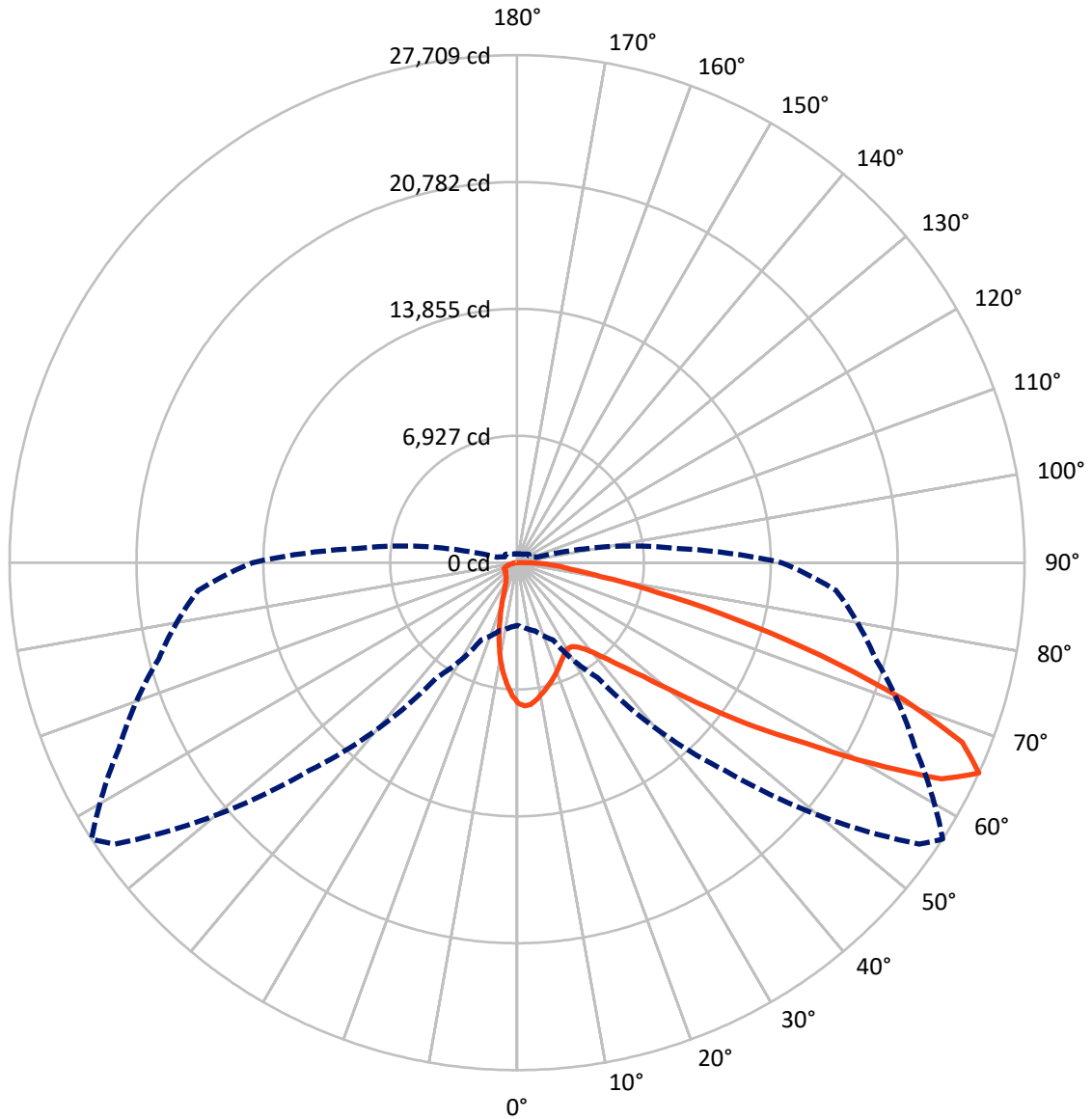
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4282.1	0.0	4282.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23639.7	0.0	23639.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	27921.7	0.0	27921.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.0	2.3
10°-20°	1383.8	5.0
20°-30°	1789.1	6.4
30°-40°	2407.6	8.6
40°-50°	3839.0	13.7
50°-60°	6780.6	24.3
60°-70°	7459.5	26.7
70°-80°	3120.5	11.2
80°-90°	498.7	1.8
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°	27921.7	100.0
0°-180°	27921.7	100.0

Coefficient of Utilization



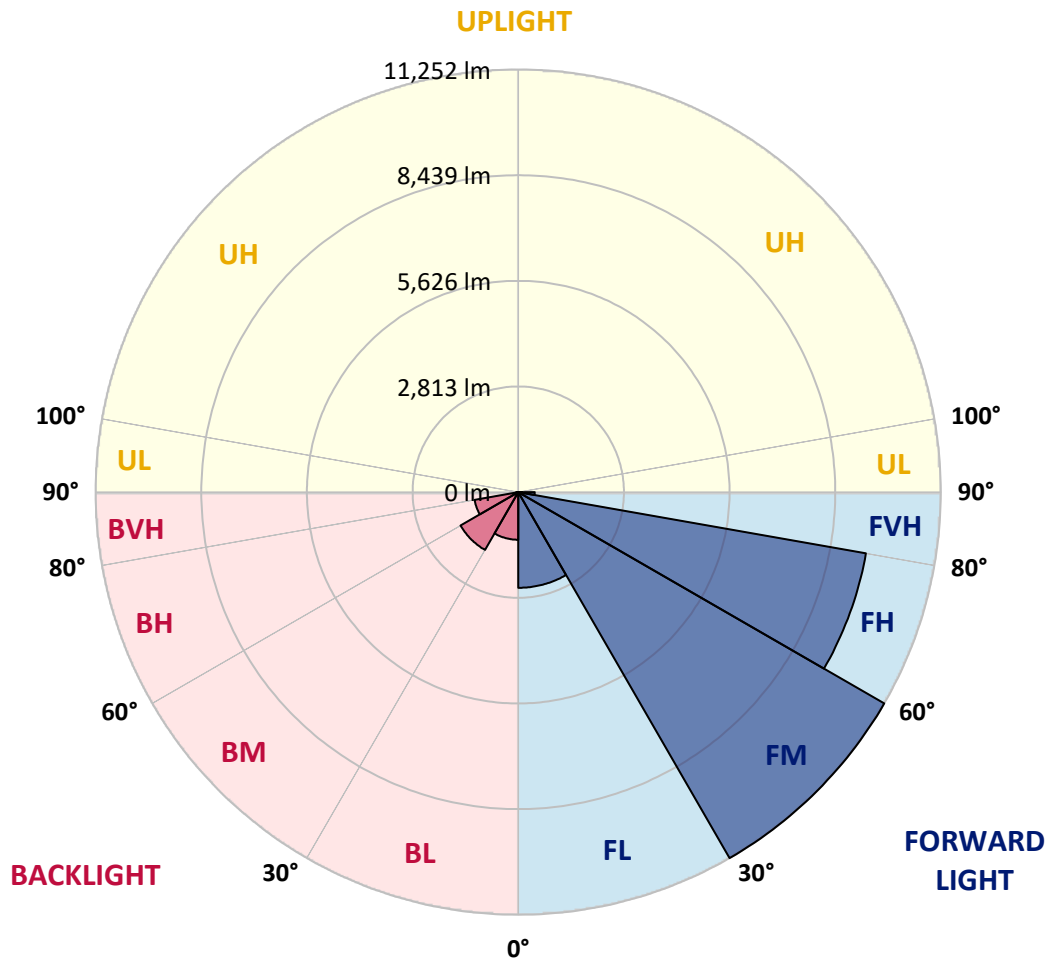
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.8	9.1			
FM (30°-60°)	11252.4	40.3			
FH (60°-80°)	9399.3	33.7			G4/12000
FVH (80°-90°)	440.2	1.6			G3/500
BL (0°-30°)	1268.1	4.5	B3/2500		
BM (30°-60°)	1774.7	6.4	B2/2500		
BH (60°-80°)	1180.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	58.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1
2.5°	7885.4	7898.0	7898.0	7923.1	7838.3	7879.1	7872.9	7835.2	7847.7	7781.8	7715.8
5°	7662.4	7652.9	7703.2	7709.5	7775.5	7794.3	7810.0	7784.9	7791.2	7646.7	7583.8
7.5°	7090.6	7087.5	7172.3	7244.5	7382.8	7511.6	7596.4	7571.3	7605.8	7514.7	7367.1
10°	6412.0	6484.3	6572.2	6644.5	6899.0	7062.3	7282.2	7304.2	7436.2	7414.2	7147.2
12.5°	5903.1	5934.5	6000.5	6207.8	6440.3	6710.5	7024.6	7052.9	7181.7	7244.5	7012.1
15°	5485.2	5513.5	5598.3	5752.3	6013.0	6333.5	6732.5	6804.7	7062.3	7084.3	6836.1
17.5°	5180.5	5202.5	5259.0	5413.0	5626.6	6038.2	6415.2	6544.0	6883.3	6990.1	6653.9
20°	5061.1	5014.0	5045.4	5142.8	5356.4	5673.7	6160.7	6273.8	6707.3	6917.8	6481.1
22.5°	5007.7	4966.9	4985.7	4979.4	5149.1	5375.3	5887.4	6006.7	6540.8	6833.0	6327.2
25°	5048.6	5048.6	5029.7	5014.0	5032.9	5180.5	5592.1	5777.4	6317.8	6760.7	6170.1
27.5°	5268.5	5183.6	5193.1	5127.1	5108.2	5108.2	5460.1	5570.1	6245.5	6719.9	6041.3
30°	5409.8	5450.7	5453.8	5356.4	5259.0	5083.1	5337.6	5444.4	6185.8	6770.2	5965.9
32.5°	5771.1	5752.3	5698.9	5680.0	5535.5	5337.6	5397.3	5469.5	6151.3	6883.3	5987.9
35°	6132.4	6123.0	6126.1	6116.7	5965.9	5673.7	5557.5	5654.9	6214.1	7081.2	6063.3
37.5°	6506.3	6531.4	6638.2	6638.2	6478.0	6160.7	6006.7	5978.5	6443.4	7404.8	6242.4
40°	6880.1	6942.9	7078.0	7291.7	7065.5	6770.2	6522.0	6478.0	6719.9	7838.3	6672.8
42.5°	7238.3	7341.9	7609.0	7926.3	7850.9	7555.6	7225.7	7175.4	7288.5	8482.3	7272.8
45°	7696.9	7784.9	8205.9	8692.8	8796.5	8535.7	8149.3	8108.5	8102.2	9424.8	8099.1
47.5°	8394.4	8488.6	8909.6	9399.7	9720.1	9761.0	9327.4	9283.4	9132.6	10697.2	9308.6
50°	9267.7	9421.7	9776.7	10348.4	10813.4	11250.1	11127.6	10998.8	10703.4	12176.9	10841.7
52.5°	9905.5	10094.0	10574.6	11306.6	12126.6	12820.9	13260.7	13260.7	12582.1	13801.1	12685.8
55°	10075.1	10188.2	10794.6	11853.3	13257.6	15013.7	15934.2	15865.1	14818.9	15510.1	14831.5
57.5°	9399.7	9547.3	10282.5	11391.5	13851.3	17065.2	18588.9	18604.6	17263.1	17495.6	16949.0
60°	7539.9	7587.0	8454.1	9936.9	13279.6	18717.7	22214.3	22274.0	20043.4	19264.3	18026.5
62.5°	5211.9	5362.7	6016.2	7316.8	11001.9	18532.3	25710.9	26006.2	22270.8	20197.4	18196.2
65°	3430.6	3521.7	3870.5	4662.1	7659.2	16063.0	26797.9	27709.0	23973.6	20250.8	17486.2
67.5°	2488.2	2503.9	2607.5	3015.9	4602.5	11551.7	24941.2	26226.1	24611.3	19804.7	15821.1
70°	2010.6	2023.2	2060.9	2321.6	2972.0	7228.8	20341.9	22355.7	22698.1	17690.4	12742.3
72.5°	1633.6	1649.3	1696.5	1941.5	2450.5	4021.3	14875.5	17329.1	18463.2	13087.9	8469.8
75°	1284.9	1297.5	1410.6	1652.5	2302.8	2761.5	9867.8	12271.1	12425.0	7649.8	3964.7
77.5°	879.6	901.6	1039.9	1401.2	2167.7	2415.9	6151.3	7860.3	7052.9	2993.9	1363.5
80°	559.2	590.6	672.3	1061.9	1916.4	2305.9	3826.5	4693.6	3088.2	1024.2	656.6
82.5°	329.9	361.3	443.0	688.0	1504.8	2139.4	2695.5	2937.4	1448.3	524.6	395.8
85°	182.2	204.2	267.0	414.7	882.8	1900.7	2158.3	2108.0	829.4	279.6	248.2
87.5°	59.7	69.1	97.4	166.5	364.4	895.4	1294.3	1215.8	430.4	128.8	97.4
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°	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1	7678.1
2.5°	7671.8	7662.4	7521.0	7414.2	7232.0	7081.2	7021.5	6939.8	6936.7	6877.0	6861.3
5°	7486.4	7389.1	7172.3	6964.9	6641.4	6424.6	6226.7	6088.4	6031.9	5909.4	5881.1
7.5°	7247.7	7118.9	6785.9	6396.3	6016.2	5676.9	5369.0	5061.1	4888.3	4828.6	4762.7
10°	6999.5	6773.3	6280.1	5843.4	5312.5	4790.9	4307.1	3873.6	3638.0	3471.5	3399.2
12.5°	6801.6	6500.0	5871.7	5218.2	4517.6	3820.2	3257.8	2802.3	2535.3	2409.6	2353.1
15°	6578.5	6179.5	5425.6	4599.3	3725.9	2934.3	2384.5	2026.3	1919.5	1859.8	1850.4
17.5°	6342.9	5881.1	4941.7	3989.8	2953.1	2208.5	1853.5	1709.0	1661.9	1636.8	1624.2
20°	6123.0	5614.0	4445.4	3311.3	2312.2	1771.9	1605.4	1530.0	1526.8	1539.4	1536.2
22.5°	5812.0	5265.3	3955.3	2682.9	1847.3	1542.5	1435.7	1416.9	1435.7	1451.4	1457.7
25°	5636.0	4979.4	3408.6	2130.0	1526.8	1369.7	1335.2	1328.9	1357.2	1376.0	1372.9
27.5°	5453.8	4684.1	2899.7	1705.9	1338.3	1247.2	1240.9	1247.2	1275.5	1303.8	1300.6
30°	5312.5	4448.5	2422.2	1426.3	1193.8	1159.3	1153.0	1159.3	1175.0	1178.1	1178.1
32.5°	5196.2	4168.9	2016.9	1237.8	1105.8	1077.6	1083.9	1080.7	1083.9	1087.0	1090.1
35°	5127.1	4002.4	1683.9	1121.6	1033.6	1011.6	1008.5	999.0	1002.2	1005.3	1002.2
37.5°	5274.8	3920.7	1420.0	1039.9	983.3	964.5	958.2	951.9	942.5	942.5	942.5
40°	5497.8	3876.7	1259.8	986.5	945.6	923.6	904.8	898.5	898.5	901.6	904.8
42.5°	5940.8	3949.0	1149.8	945.6	898.5	873.4	854.5	857.7	867.1	876.5	870.2
45°	6581.7	4168.9	1099.6	914.2	870.2	835.7	823.1	820.0	829.4	845.1	857.7
47.5°	7420.5	4511.3	1080.7	885.9	851.4	804.3	788.5	798.0	810.5	832.5	823.1
50°	8793.4	5281.0	1096.4	860.8	823.1	788.5	769.7	760.3	769.7	785.4	791.7
52.5°	10587.2	6679.1	1156.1	848.2	804.3	776.0	744.6	728.9	738.3	750.8	750.8
55°	12732.9	8589.1	1322.6	832.5	772.8	757.1	722.6	691.2	697.4	697.4	694.3
57.5°	14624.2	10031.1	1520.5	810.5	754.0	732.0	688.0	650.3	644.0	647.2	650.3
60°	15472.4	10414.4	1614.8	804.3	754.0	700.6	640.9	603.2	593.8	587.5	587.5
62.5°	15324.7	9751.5	1423.1	776.0	772.8	675.4	596.9	556.1	543.5	530.9	534.1
65°	14432.5	8805.9	1121.6	738.3	776.0	659.7	552.9	512.1	490.1	474.4	471.2
67.5°	12802.0	7517.9	889.1	710.0	744.6	631.5	515.2	468.1	449.2	433.5	427.3
70°	10015.4	5893.7	772.8	672.3	669.2	562.3	471.2	430.4	402.1	383.3	383.3
72.5°	6493.7	3725.9	662.9	596.9	578.1	471.2	408.4	383.3	361.3	345.6	345.6
75°	2940.5	1731.0	534.1	499.5	471.2	377.0	345.6	333.0	314.2	298.5	298.5
77.5°	1055.6	738.3	399.0	392.7	351.9	292.2	279.6	270.2	257.6	241.9	241.9
80°	590.6	468.1	298.5	285.9	245.0	216.8	201.1	201.1	194.8	185.4	182.2
82.5°	373.9	304.7	219.9	191.6	160.2	144.5	138.2	135.1	131.9	119.4	116.2
85°	235.6	207.3	144.5	113.1	94.2	72.3	69.1	66.0	59.7	53.4	53.4
87.5°	106.8	119.4	56.5	34.6	25.1	15.7	9.4	3.1	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)