

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: P481187

Luminaire Tested: **IFLD-L-SA7D-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481187
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

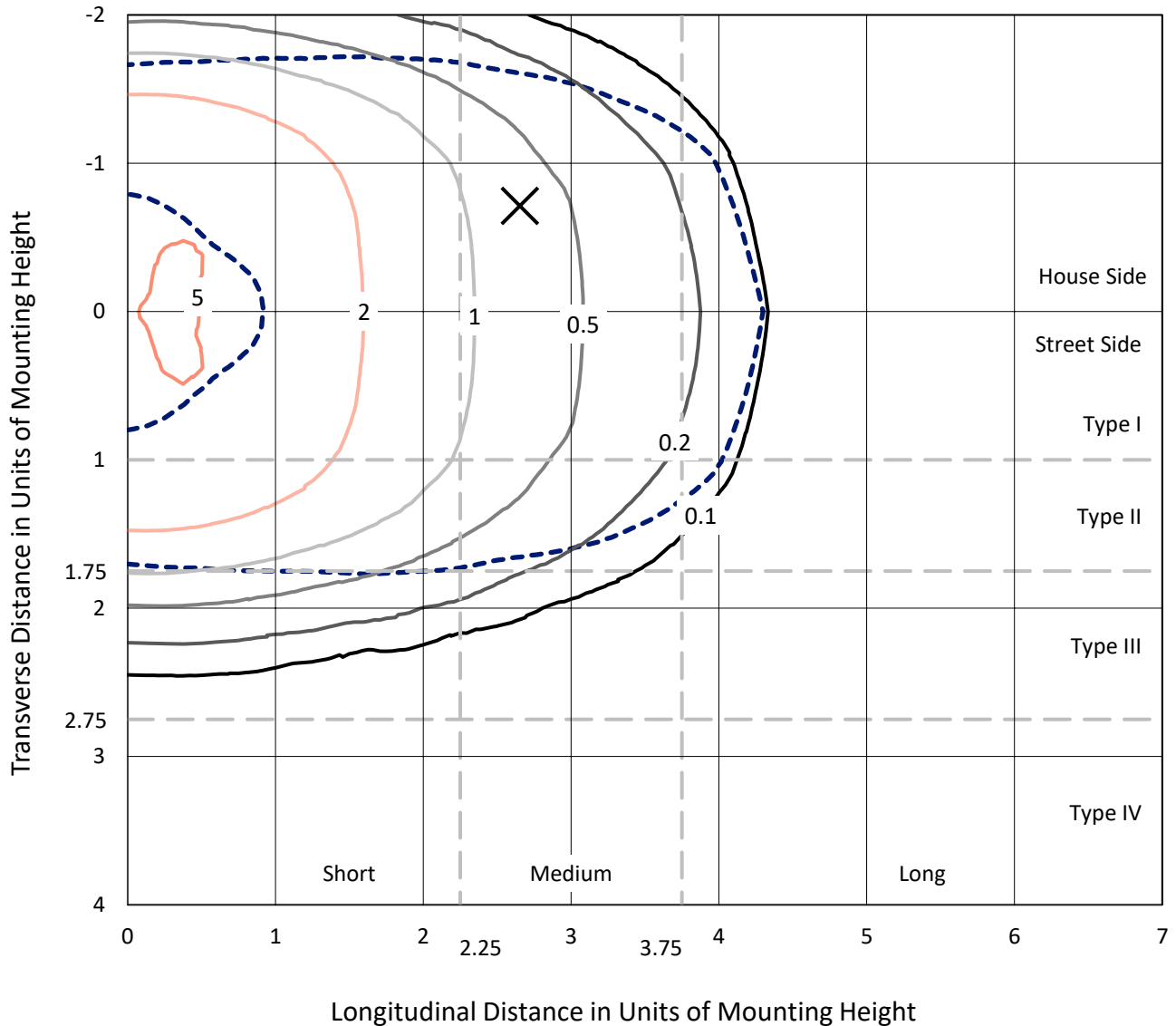
Lumens per Lamp: N/A
Luminaire Lumens: 42018.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 422.6
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

REPORT NUMBER: P481187
 CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

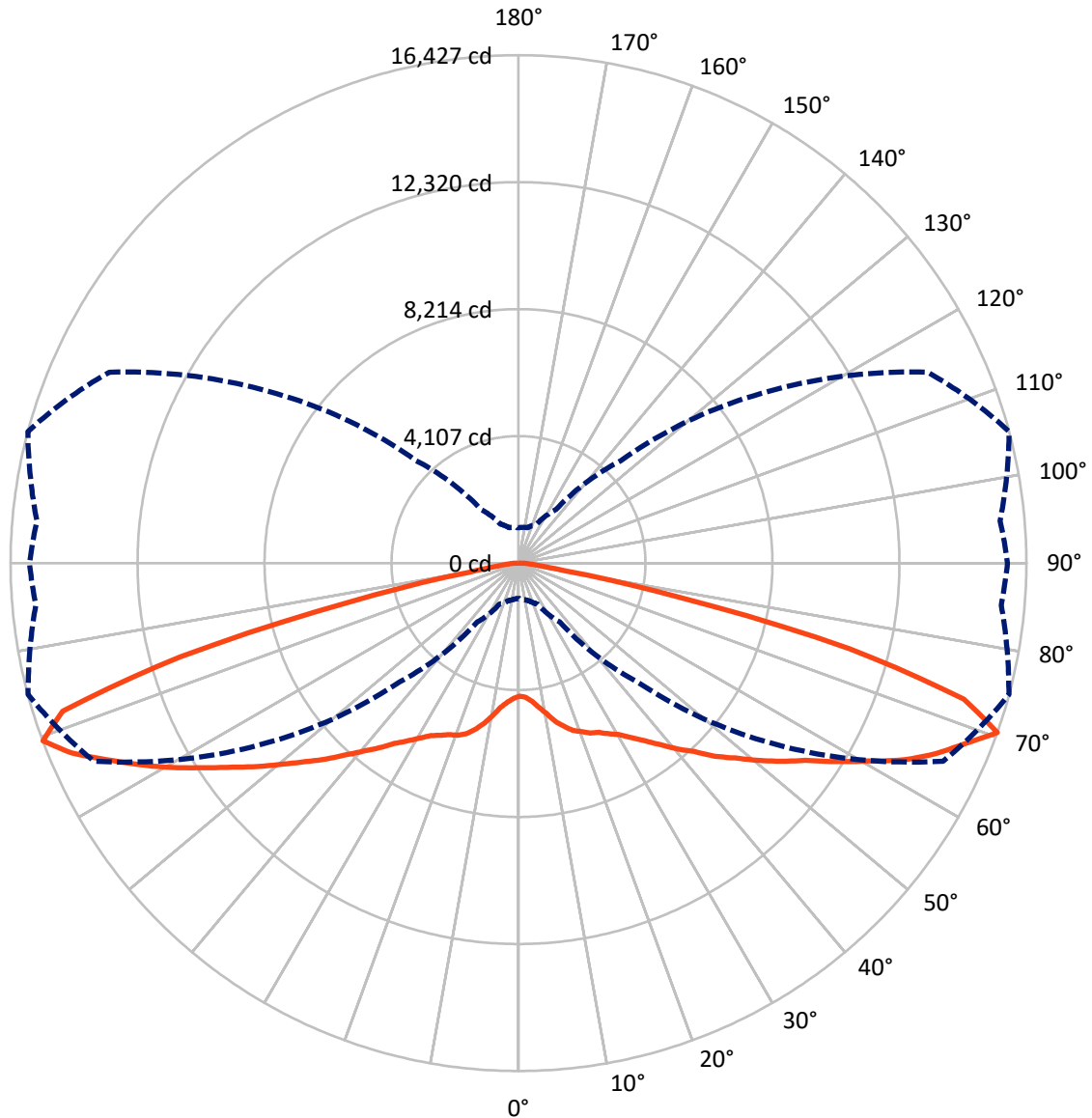
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P481187
CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481187
 CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20860.0	0.0	20860.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21158.9	0.0	21158.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	42018.9	0.0	42018.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	1.0
10°-20°	1458.2	3.5
20°-30°	2823.6	6.7
30°-40°	4775.8	11.4
40°-50°	7618.9	18.1
50°-60°	10428.5	24.8
60°-70°	9829.6	23.4
70°-80°	4330.2	10.3
80°-90°	325.8	0.8
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°	42018.9	100.0
0°-180°	42018.9	100.0

Coefficient of Utilization

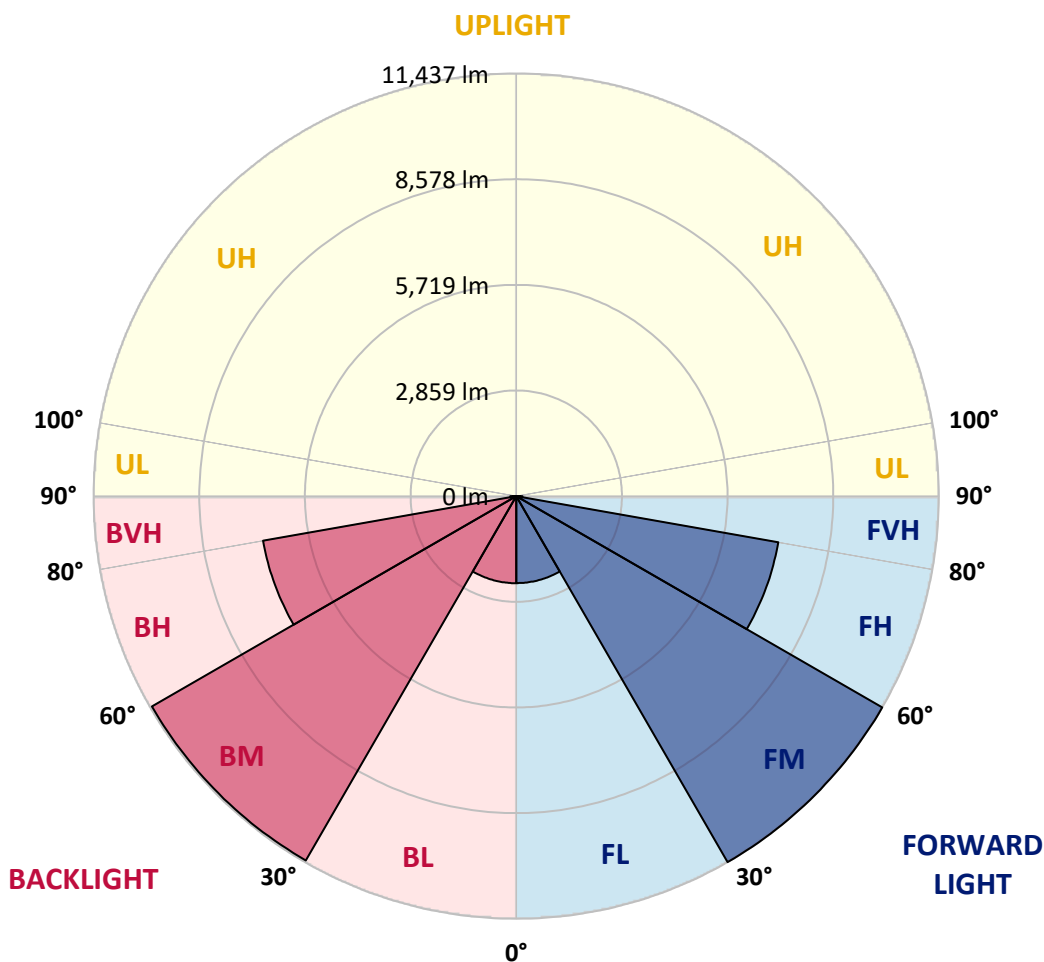


REPORT NUMBER: P481187
 CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2353.7	5.6			
FM (30°-60°)	11437.2	27.2			
FH (60°-80°)	7201.6	17.1			G3/7500
FVH (80°-90°)	166.4	0.4			G2/225
BL (0°-30°)	2356.3	5.6	B3/2500		
BM (30°-60°)	11386.0	27.1	B5		
BH (60°-80°)	6958.2	16.6	B5		G5
BVH (80°-90°)	159.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





REPORT NUMBER: P481187

CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7
2.5°	4275.5	4275.5	4271.0	4293.6	4316.3	4325.3	4343.5	4348.0	4375.2	4352.5	4397.8
5°	4261.9	4257.4	4293.6	4348.0	4348.0	4406.9	4443.1	4492.9	4506.5	4533.7	4542.7
7.5°	4357.0	4348.0	4329.9	4388.7	4438.6	4529.1	4579.0	4665.0	4696.7	4733.0	4773.7
10°	4415.9	4415.9	4397.8	4502.0	4547.3	4669.6	4778.3	4864.3	4986.6	5027.4	5031.9
12.5°	4425.0	4438.6	4492.9	4628.8	4755.6	4914.1	4995.7	5158.7	5281.0	5358.0	5385.2
15°	4560.9	4533.7	4592.6	4778.3	4963.9	5104.4	5249.3	5367.0	5543.7	5643.3	5706.7
17.5°	4683.1	4656.0	4764.7	4986.6	5176.8	5394.2	5521.0	5647.8	5774.7	5865.2	5869.8
20°	4877.9	4900.5	4995.7	5235.7	5484.8	5675.0	5820.0	5842.6	5906.0	6037.4	6014.7
22.5°	5117.9	5099.8	5299.1	5561.8	5833.5	5992.1	6073.6	6014.7	5983.0	6123.4	6155.1
25°	5358.0	5412.3	5593.5	5838.1	6164.2	6377.0	6399.7	6236.6	6118.9	6168.7	6155.1
27.5°	5724.8	5733.9	5924.1	6214.0	6544.6	6730.3	6716.7	6485.7	6259.3	6263.8	6272.9
30°	6195.9	6150.6	6358.9	6621.6	6947.7	7115.3	7137.9	6807.3	6503.9	6413.3	6435.9
32.5°	6648.8	6703.1	6884.3	7183.2	7423.3	7518.4	7468.6	7174.2	6780.1	6657.8	6671.4
35°	7228.5	7219.5	7468.6	7722.2	7903.4	7921.5	7880.7	7450.4	7079.1	6920.5	6857.1
37.5°	7849.0	7930.5	8093.6	8301.9	8492.2	8501.2	8279.3	7935.1	7477.6	7214.9	7291.9
40°	8542.0	8632.6	8750.3	9053.8	9194.2	9049.2	8822.8	8356.3	7880.7	7649.7	7686.0
42.5°	9153.4	9194.2	9434.2	9792.0	9860.0	9796.5	9461.4	8895.2	8342.7	8089.1	8107.2
45°	9715.0	9769.4	10081.9	10403.5	10562.0	10453.3	10063.8	9524.8	8881.7	8664.3	8578.2
47.5°	10231.3	10340.0	10643.5	10974.1	11218.7	11227.8	10747.7	10095.5	9416.1	9130.8	9126.2
50°	10580.1	10738.6	11037.5	11413.5	11771.3	11911.7	11431.6	10729.6	10000.4	9696.9	9665.2
52.5°	10770.3	10933.4	11232.3	11816.5	12215.1	12432.5	12206.1	11322.9	10684.3	10367.2	10317.4
55°	10539.3	10648.0	11137.2	11957.0	12572.9	12930.7	12781.3	12142.6	11363.6	11105.5	11150.8
57.5°	9556.5	9783.0	10385.3	11408.9	12563.9	13442.5	13428.9	12917.1	12147.2	11902.6	11911.7
60°	7867.1	8057.4	8800.1	10231.3	12056.6	13650.9	14130.9	13669.0	13025.8	12740.5	12731.4
62.5°	5552.7	5792.8	6653.3	8215.9	10562.0	13361.0	14937.1	14615.6	13886.4	13678.0	13755.0
65°	3107.0	3251.9	4049.1	5462.2	8048.3	11766.7	15082.1	15598.4	14760.5	14443.5	14457.0
67.5°	1662.2	1716.5	2087.9	2867.0	4923.2	9071.9	13619.1	16164.5	15707.1	15159.1	15073.0
70°	1141.3	1159.5	1254.6	1467.4	2328.0	5425.9	10272.1	15154.5	16418.2	15670.9	15815.8
72.5°	964.7	955.7	978.3	1000.9	1218.3	2427.6	6028.3	11662.6	15498.7	15217.9	15163.6
75°	837.9	833.4	842.4	819.8	847.0	1068.9	2667.7	7269.3	11345.5	12663.5	12867.3
77.5°	693.0	697.5	702.0	679.4	670.3	706.5	1073.4	3193.0	5584.4	6164.2	6648.8
80°	525.4	534.4	570.7	548.0	511.8	516.3	634.1	1068.9	1603.3	1453.9	1499.1
82.5°	357.8	362.3	439.3	412.2	385.0	348.7	407.6	552.6	625.0	475.6	416.7
85°	253.6	249.1	285.3	262.7	244.6	176.6	244.6	312.5	375.9	235.5	212.9
87.5°	58.9	58.9	117.8	95.1	90.6	72.5	95.1	122.3	163.0	104.2	95.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481187
 CATALOG NUMBER: IFLD-L-SA7D-727-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7	4302.7
2.5°	4384.2	4343.5	4343.5	4334.4	4298.2	4289.1	4257.4	4266.5	4243.8	4221.2
5°	4538.2	4483.9	4483.9	4406.9	4334.4	4325.3	4289.1	4289.1	4252.9	4261.9
7.5°	4751.1	4701.3	4619.7	4551.8	4452.2	4411.4	4343.5	4334.4	4325.3	4307.2
10°	5004.7	4941.3	4859.8	4719.4	4637.8	4560.9	4492.9	4397.8	4375.2	4379.7
12.5°	5348.9	5249.3	5072.6	4950.4	4846.2	4746.5	4646.9	4506.5	4474.8	4488.4
15°	5593.5	5466.7	5290.0	5244.8	5104.4	4982.1	4819.0	4660.5	4606.1	4592.6
17.5°	5792.8	5688.6	5584.4	5516.5	5403.3	5253.8	5027.4	4846.2	4723.9	4710.3
20°	5955.8	5820.0	5797.3	5838.1	5697.7	5598.0	5321.7	5099.8	4936.8	4868.8
22.5°	6055.5	5969.4	6032.8	6069.1	6060.0	5892.4	5607.1	5348.9	5145.1	5081.7
25°	6164.2	6064.5	6291.0	6413.3	6445.0	6168.7	5946.8	5607.1	5407.8	5367.0
27.5°	6218.5	6254.8	6517.4	6775.6	6753.0	6540.1	6241.2	5937.7	5779.2	5706.7
30°	6377.0	6435.9	6834.5	7124.4	7128.9	6920.5	6694.1	6349.9	6173.2	6141.5
32.5°	6662.4	6734.8	7160.6	7468.6	7522.9	7364.4	7137.9	6925.1	6743.9	6671.4
35°	6879.8	7065.5	7545.6	7826.4	7971.3	7876.2	7749.4	7527.4	7337.2	7273.8
37.5°	7192.3	7450.4	7912.4	8292.9	8455.9	8446.9	8351.7	8111.7	7953.2	7898.8
40°	7640.7	7898.8	8320.0	8822.8	9126.2	9112.6	9058.3	8872.6	8637.1	8609.9
42.5°	8116.2	8329.1	8877.1	9452.3	9887.1	9841.8	9696.9	9479.5	9316.5	9280.2
45°	8578.2	8908.8	9416.1	10154.4	10480.4	10593.7	10421.6	10050.2	9864.5	9841.8
47.5°	9157.9	9420.6	10054.7	10716.0	11200.6	11218.7	10924.3	10580.1	10240.4	10312.9
50°	9674.3	10023.0	10666.1	11390.8	11970.5	11762.2	11386.3	10956.0	10711.4	10616.3
52.5°	10226.8	10652.6	11399.9	12138.1	12459.7	12251.3	11639.9	11159.8	10788.4	10747.7
55°	11033.0	11254.9	12233.2	12799.4	12903.5	12464.2	11562.9	10883.5	10403.5	10285.7
57.5°	11852.8	12110.9	12967.0	13456.1	13347.4	12346.5	11064.7	10013.9	9384.4	9216.8
60°	12681.6	12998.7	13718.8	14167.2	13605.6	11535.7	9656.1	8301.9	7568.2	7418.7
62.5°	13605.6	14017.7	14660.9	14819.4	12840.1	9932.4	7663.3	5992.1	5249.3	5000.2
65°	14425.3	14846.5	15639.1	14683.5	11214.2	7409.7	4954.9	3424.0	2876.0	2676.7
67.5°	15100.2	15575.7	15965.2	12994.1	8211.3	4338.9	2581.6	1802.6	1598.8	1526.3
70°	15634.6	16427.2	14606.5	9552.0	4692.2	2115.1	1395.0	1186.6	1159.5	1141.3
72.5°	15168.1	15063.9	10906.2	5512.0	2056.2	1164.0	1010.0	978.3	973.8	978.3
75°	12405.3	11064.7	6522.0	2395.9	1032.6	842.4	837.9	824.3	847.0	847.0
77.5°	6019.2	5262.9	2726.5	1028.1	679.4	661.3	683.9	683.9	683.9	683.9
80°	1395.0	1544.4	973.8	625.0	493.7	493.7	543.5	548.0	525.4	516.3
82.5°	475.6	634.1	534.4	394.0	326.1	366.9	412.2	421.2	348.7	353.3
85°	235.5	371.4	289.9	226.5	167.6	226.5	267.2	280.8	240.0	231.0
87.5°	108.7	163.0	108.7	77.0	58.9	81.5	77.0	63.4	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)