

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: P478924

Luminaire Tested: **IFLD-L-SA7C-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

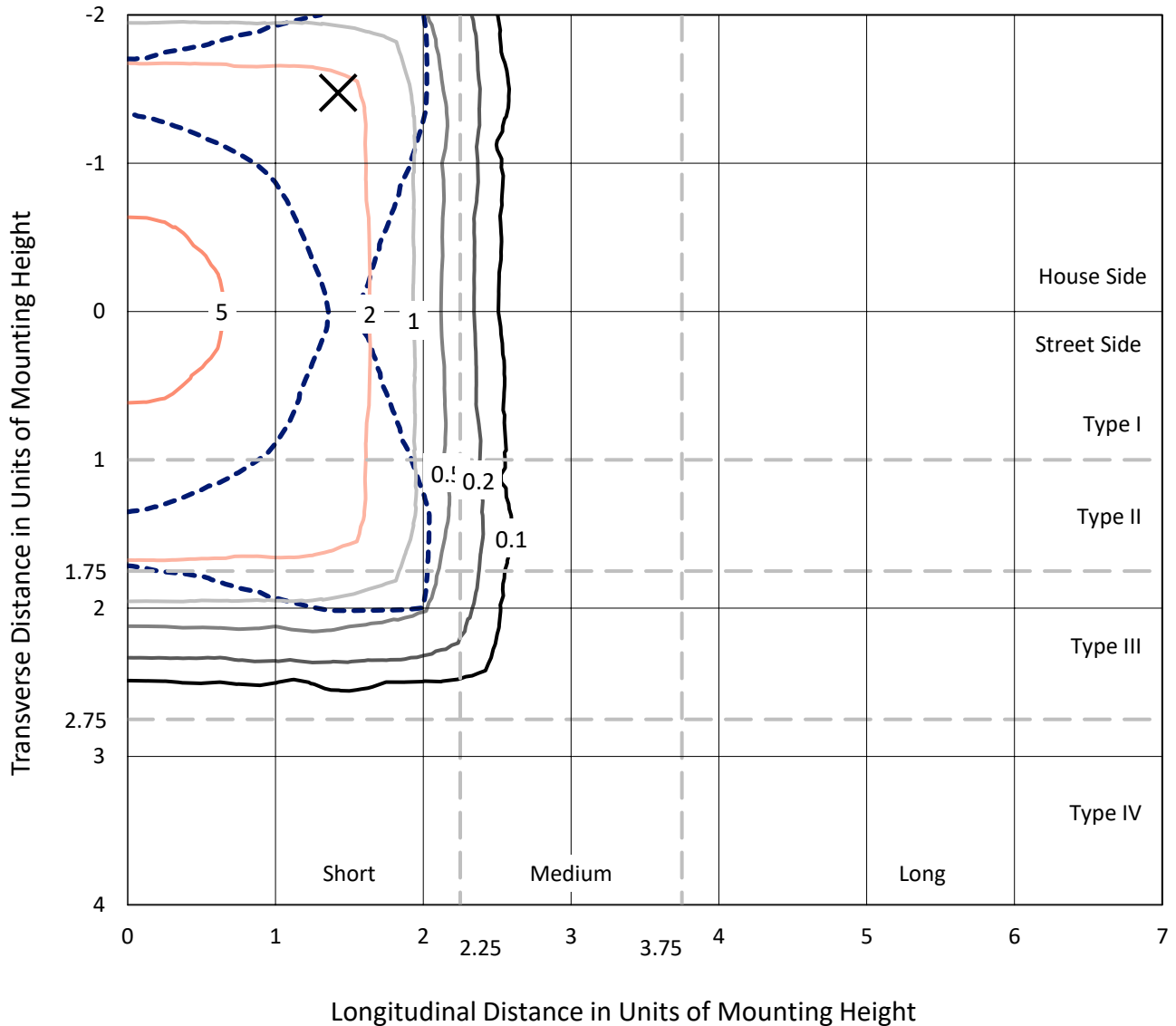
Lumens per Lamp: N/A
Luminaire Lumens: 43608.7 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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

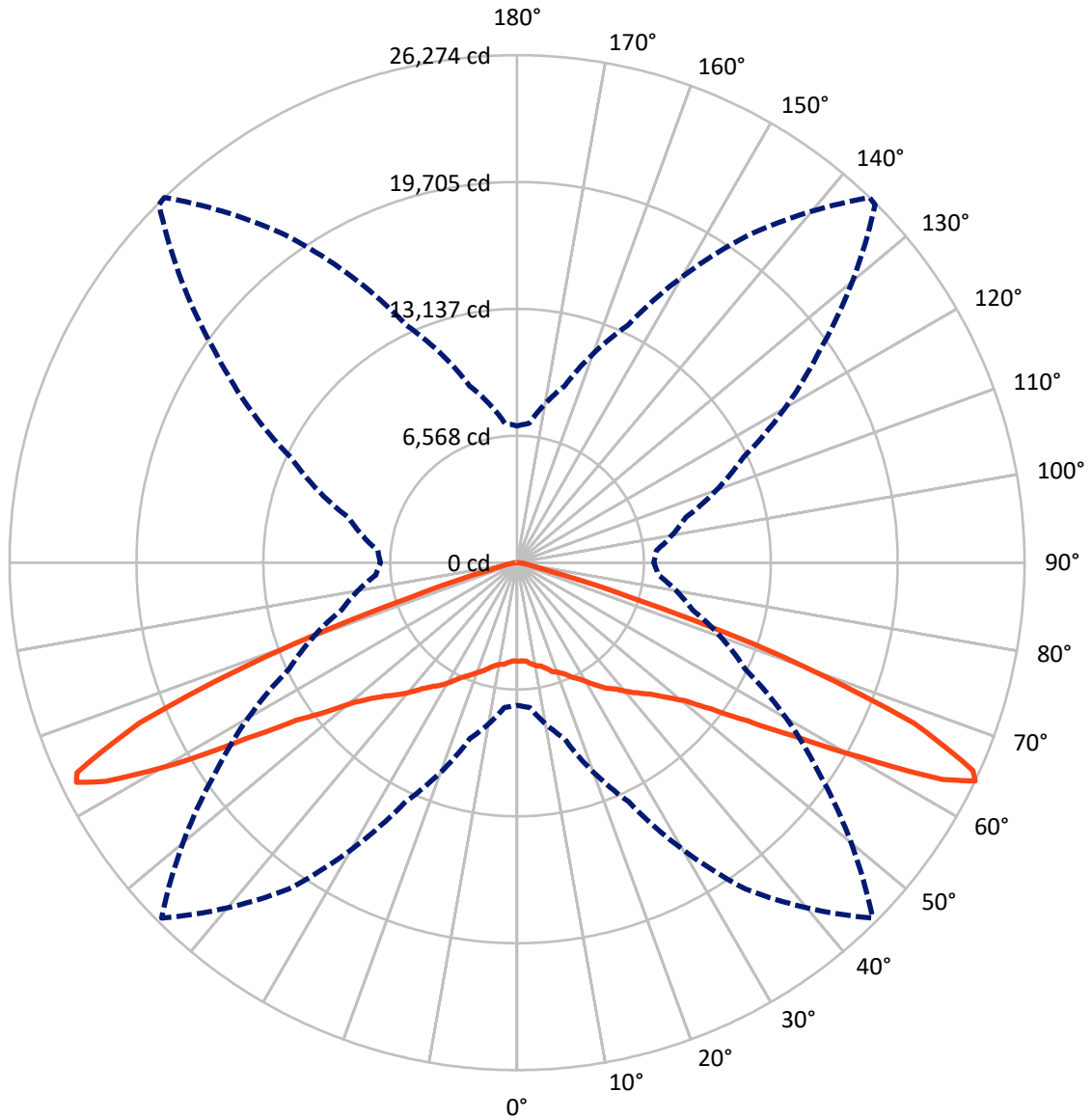
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21825.1	0.0	21825.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21783.6	0.0	21783.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	43608.7	0.0	43608.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	1.2
10°-20°	1616.9	3.7
20°-30°	3038.8	7.0
30°-40°	5011.5	11.5
40°-50°	7837.6	18.0
50°-60°	12663.7	29.0
60°-70°	11402.9	26.1
70°-80°	1350.7	3.1
80°-90°	184.9	0.4
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°	43608.7	100.0
0°-180°	43608.7	100.0

Coefficient of Utilization



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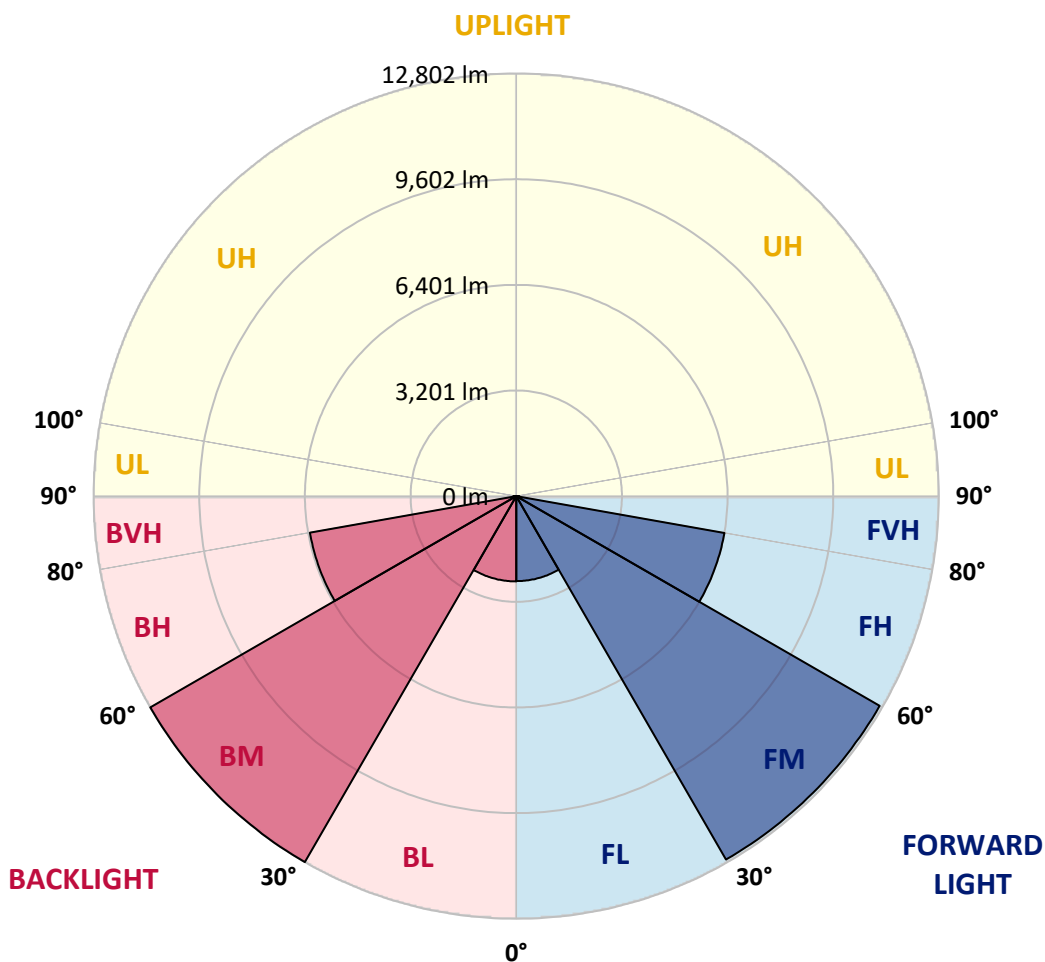
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2573.7	5.9			
FM	(30°-60°)	12710.6	29.1			
FH	(60°-80°)	6404.4	14.7			G3/7500
FVH	(80°-90°)	94.8	0.2			G1/100
BL	(0°-30°)	2583.6	5.9	B4/5000		
BM	(30°-60°)	12802.3	29.4	B5		
BH	(60°-80°)	6349.2	14.6	B5		G3/7500
BVH	(80°-90°)	90.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7
2.5°	5045.7	5055.7	5145.7	5110.7	5140.7	5085.7	5125.7	5210.7	5110.7	5185.7	5210.7
5°	5100.7	5115.7	5115.7	5150.7	5170.7	5160.7	5185.7	5150.7	5245.7	5205.7	5265.7
7.5°	5300.7	5275.7	5235.7	5265.7	5270.7	5295.7	5320.7	5365.7	5350.7	5315.7	5375.7
10°	5335.7	5315.7	5375.7	5380.7	5355.7	5335.7	5360.7	5360.7	5405.7	5415.7	5415.7
12.5°	5395.7	5415.7	5410.7	5450.7	5455.7	5440.7	5480.7	5555.7	5535.7	5550.7	5515.7
15°	5625.7	5600.7	5595.7	5635.8	5700.8	5605.7	5675.8	5670.8	5650.8	5680.8	5600.7
17.5°	5825.8	5745.8	5780.8	5845.8	5820.8	5840.8	5930.8	5850.8	5870.8	5835.8	5810.8
20°	6000.8	5935.8	5940.8	5965.8	5965.8	6025.8	6060.8	6030.8	6010.8	6005.8	6015.8
22.5°	6195.8	6120.8	6125.8	6230.8	6265.8	6245.8	6220.8	6270.8	6280.8	6240.8	6285.8
25°	6340.8	6420.9	6445.9	6495.9	6420.9	6475.9	6455.9	6550.9	6610.9	6530.9	6585.9
27.5°	6720.9	6685.9	6750.9	6745.9	6805.9	6750.9	6785.9	6815.9	6840.9	6845.9	6820.9
30°	7060.9	7075.9	7010.9	7186.0	7045.9	7135.9	7196.0	7211.0	7241.0	7241.0	7166.0
32.5°	7421.0	7391.0	7496.0	7456.0	7431.0	7501.0	7436.0	7641.0	7521.0	7591.0	7506.0
35°	7826.0	7826.0	7866.0	7976.1	7826.0	7781.0	7901.1	7986.1	7986.1	7861.0	7891.1
37.5°	8281.1	8241.1	8291.1	8431.1	8316.1	8166.1	8386.1	8421.1	8396.1	8361.1	8301.1
40°	8601.1	8591.1	8691.2	8876.2	8711.2	8681.2	8721.2	8816.2	8846.2	8881.2	8801.2
42.5°	9141.2	9186.2	9476.3	9431.3	9296.2	9191.2	9181.2	9536.3	9451.3	9361.2	9316.2
45°	9941.3	9901.3	10051.3	10056.3	9881.3	9651.3	9701.3	10026.3	10171.4	9971.3	10046.3
47.5°	10576.4	10596.4	10701.4	10916.5	10511.4	10271.4	10456.4	10981.5	10936.5	10861.4	10931.5
50°	11426.5	11516.5	11846.6	11771.6	11411.5	11116.5	11521.5	12016.6	12071.6	11796.6	11746.6
52.5°	12601.7	12741.7	12921.7	12981.7	12636.7	12531.7	12556.7	13171.8	13036.7	12771.7	12601.7
55°	13631.8	13696.8	14026.9	14521.9	14496.9	13991.9	14281.9	14511.9	13961.9	13416.8	13461.8
57.5°	14071.9	14101.9	15022.0	16012.1	16602.2	16717.2	16387.2	15612.1	14301.9	13251.8	13186.8
60°	12976.7	13261.8	14371.9	16607.2	19302.6	20632.7	18437.5	15737.1	13506.8	12231.6	12136.6
62.5°	10371.4	10386.4	12036.6	15427.1	20982.8	24468.3	19222.6	14561.9	11386.5	9941.3	9561.3
64°	7386.0	7526.0	9421.3	13656.8	20632.7	26028.5	19127.5	13026.7	9386.2	7336.0	7070.9
65°	5300.7	5495.7	7326.0	11856.6	19812.6	25843.4	18842.5	11706.6	7591.0	5600.7	5330.7
67.5°	1950.3	2030.3	2875.4	5930.8	14226.9	22022.9	14932.0	6435.9	3335.4	2375.3	2135.3
70°	905.1	910.1	1065.1	1960.3	6220.8	14727.0	7125.9	2415.3	1255.2	995.1	925.1
72.5°	665.1	680.1	745.1	905.1	1830.2	6235.8	2340.3	990.1	735.1	650.1	635.1
75°	540.1	550.1	570.1	655.1	845.1	1670.2	950.1	685.1	585.1	525.1	505.1
77.5°	415.1	415.1	460.1	500.1	560.1	780.1	630.1	545.1	475.1	415.1	400.1
80°	300.0	305.0	360.0	390.1	380.1	515.1	455.1	450.1	390.1	325.0	300.0
82.5°	175.0	190.0	260.0	280.0	270.0	305.0	330.0	350.0	305.0	225.0	205.0
85°	100.0	105.0	150.0	155.0	155.0	145.0	190.0	210.0	205.0	140.0	125.0
87.5°	30.0	30.0	40.0	40.0	45.0	50.0	75.0	90.0	100.0	70.0	65.0
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7	5105.7
2.5°	5185.7	5110.7	5115.7	5135.7	5070.7	5095.7	5170.7	5115.7	5100.7	5070.7	5055.7
5°	5160.7	5240.7	5210.7	5220.7	5205.7	5135.7	5125.7	5170.7	5195.7	5150.7	5240.7
7.5°	5335.7	5300.7	5260.7	5275.7	5240.7	5300.7	5340.7	5250.7	5295.7	5270.7	5220.7
10°	5435.7	5370.7	5400.7	5390.7	5365.7	5425.7	5385.7	5375.7	5335.7	5280.7	5360.7
12.5°	5470.7	5545.7	5595.7	5510.7	5525.7	5495.7	5470.7	5470.7	5425.7	5410.7	5425.7
15°	5625.7	5690.8	5670.8	5735.8	5650.8	5680.8	5710.8	5635.8	5675.8	5565.7	5650.8
17.5°	5910.8	5855.8	5925.8	5840.8	5870.8	5930.8	5835.8	5835.8	5865.8	5805.8	5730.8
20°	6090.8	6065.8	6040.8	6045.8	5995.8	6050.8	6020.8	6005.8	5960.8	5980.8	6020.8
22.5°	6260.8	6225.8	6235.8	6250.8	6285.8	6260.8	6245.8	6260.8	6150.8	6250.8	6110.8
25°	6470.9	6565.9	6535.9	6600.9	6500.9	6565.9	6560.9	6465.9	6525.9	6485.9	6455.9
27.5°	6820.9	6770.9	6815.9	6735.9	6805.9	6810.9	6750.9	6910.9	6840.9	6830.9	6810.9
30°	7271.0	7236.0	7206.0	7161.0	7216.0	7171.0	7221.0	7236.0	7171.0	7120.9	7025.9
32.5°	7526.0	7621.0	7656.0	7546.0	7551.0	7576.0	7531.0	7486.0	7526.0	7541.0	7526.0
35°	7886.0	7976.1	7996.1	7911.1	7866.0	7991.1	7901.1	8051.1	7921.1	7926.1	7791.0
37.5°	8306.1	8331.1	8501.1	8406.1	8366.1	8306.1	8471.1	8451.1	8481.1	8241.1	8361.1
40°	8781.2	8871.2	8966.2	8726.2	8721.2	8776.2	8766.2	8881.2	8826.2	8791.2	8706.2
42.5°	9301.2	9491.3	9506.3	9346.2	9246.2	9236.2	9286.2	9541.3	9546.3	9316.2	9216.2
45°	9991.3	10201.4	10146.4	9836.3	9726.3	9711.3	9956.3	10066.3	10161.4	10071.3	9986.3
47.5°	10851.4	10991.5	10951.5	10666.4	10311.4	10411.4	10651.4	10996.5	10896.5	10776.4	10676.4
50°	11771.6	11936.6	11851.6	11566.5	11226.5	11226.5	11521.5	11961.6	11931.6	11696.6	11606.5
52.5°	12791.7	13031.7	13226.8	12821.7	12536.7	12581.7	13046.7	13206.8	13131.7	12966.7	12891.7
55°	13551.8	14011.9	14411.9	14431.9	14446.9	14441.9	14561.9	14722.0	14186.9	13921.9	13651.8
57.5°	13366.8	14236.9	15607.1	16537.2	16812.2	16957.3	16917.3	16177.2	14912.0	14041.9	14131.9
60°	12046.6	13466.8	15677.1	18662.5	20662.8	20462.7	19732.6	16807.2	14511.9	13041.7	12856.7
62.5°	9611.3	11321.5	14501.9	19262.6	24773.3	24713.3	20892.8	15352.0	12091.6	10231.4	10116.3
64°	7241.0	9041.2	12936.7	19107.5	26213.5	26273.5	20597.7	13561.8	9461.3	7241.0	7065.9
65°	5540.7	7211.0	11401.5	18787.5	25903.4	25938.5	19777.6	11711.6	7191.0	5140.7	4950.7
67.5°	2205.3	3070.4	6185.8	14246.9	22243.0	22147.9	14111.9	5665.8	2750.4	1790.2	1755.2
70°	940.1	1170.2	2170.3	6750.9	14892.0	14616.9	6075.8	1840.2	1020.1	855.1	850.1
72.5°	645.1	715.1	930.1	2085.3	6190.8	6045.8	1730.2	855.1	695.1	640.1	640.1
75°	520.1	570.1	675.1	875.1	1640.2	1580.2	815.1	630.1	555.1	515.1	510.1
77.5°	405.1	455.1	530.1	605.1	750.1	745.1	545.1	475.1	430.1	400.1	390.1
80°	320.0	370.0	420.1	430.1	490.1	480.1	370.0	375.0	350.0	290.0	285.0
82.5°	220.0	300.0	335.0	305.0	290.0	290.0	265.0	265.0	245.0	180.0	165.0
85°	135.0	200.0	210.0	180.0	135.0	135.0	145.0	140.0	130.0	95.0	90.0
87.5°	70.0	95.0	85.0	70.0	45.0	45.0	40.0	30.0	30.0	25.0	25.0
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)