

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: P481461

Luminaire Tested: **IFLD-L-SA7E-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

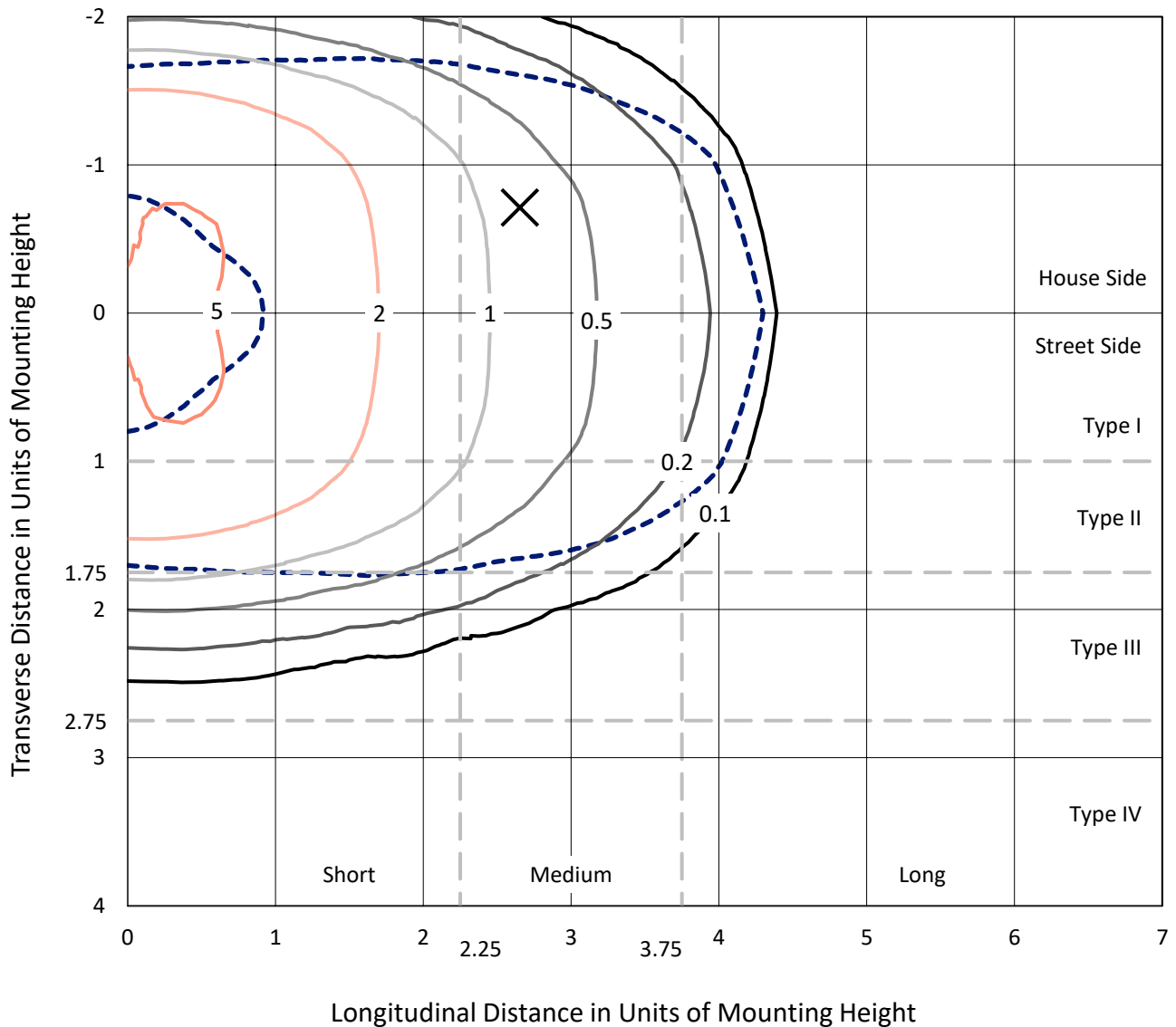
Lumens per Lamp: N/A
Luminaire Lumens: 46203.2 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

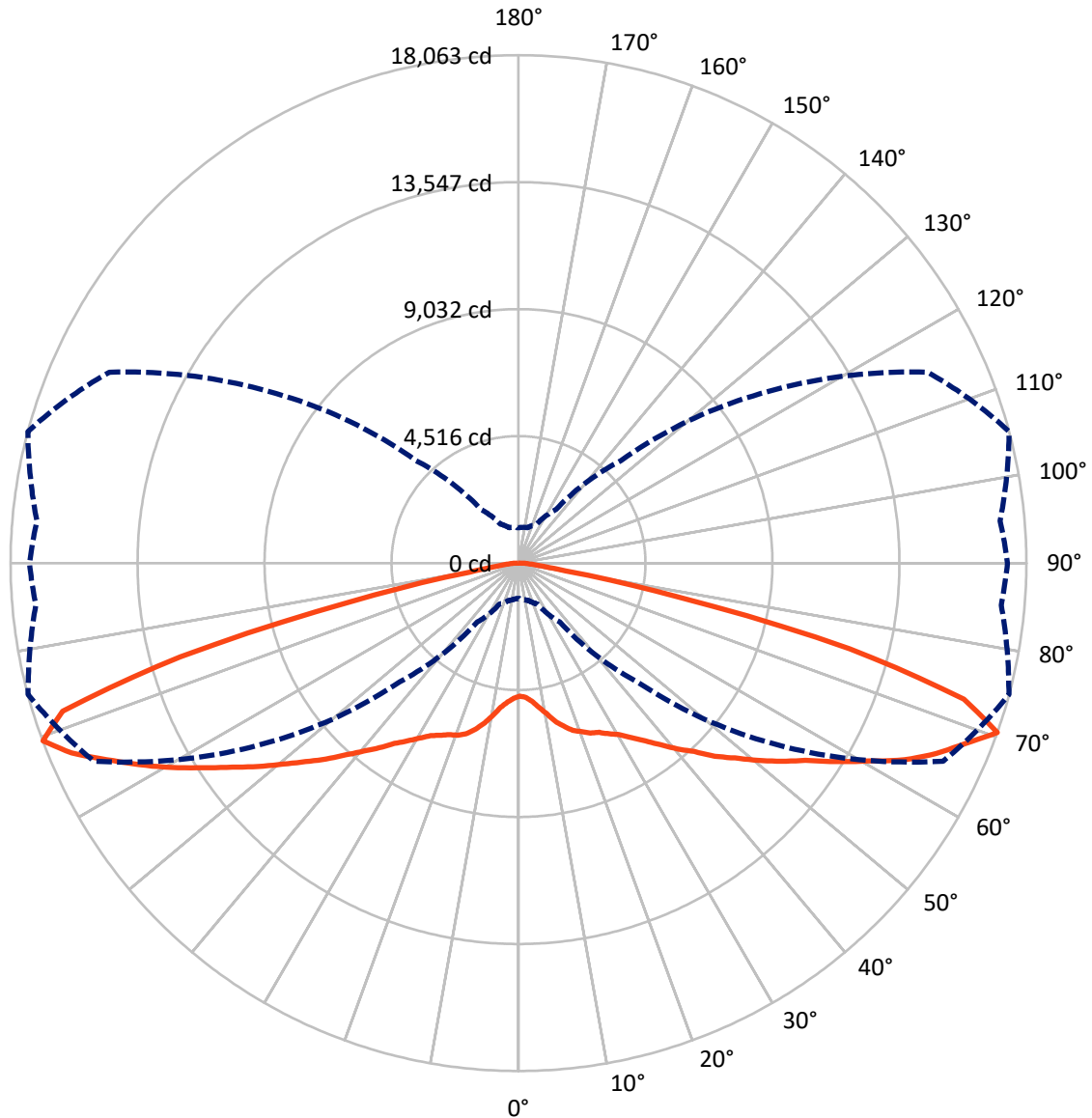
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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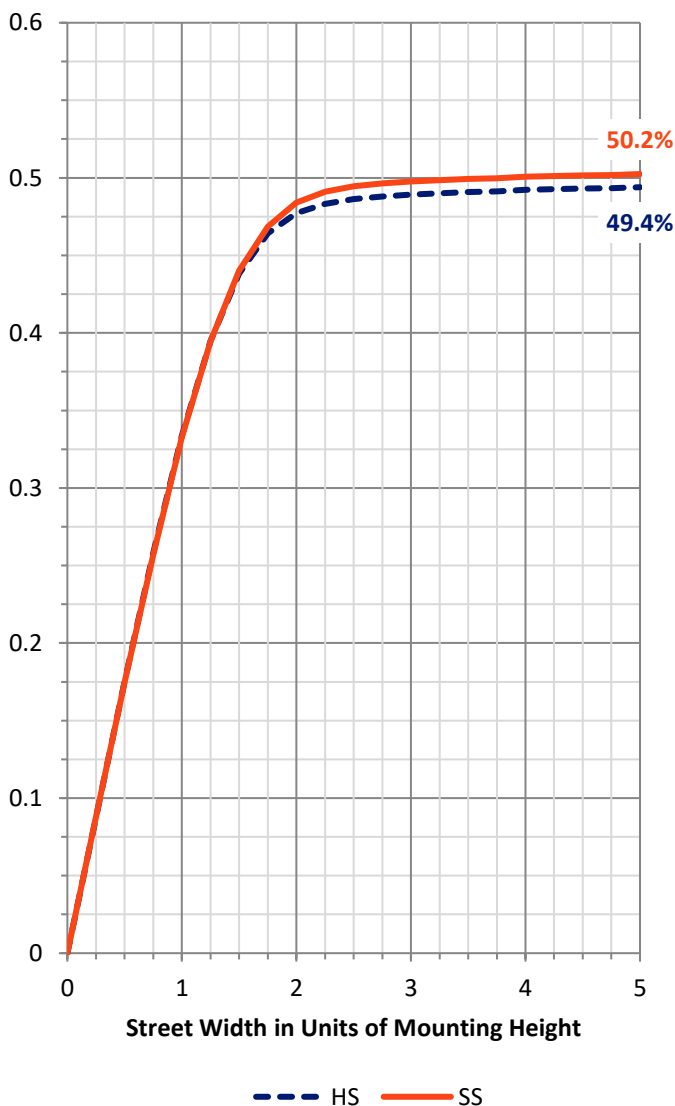
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22937.3	0.0	22937.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23266.0	0.0	23266.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	46203.2	0.0	46203.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	1.0
10°-20°	1603.4	3.5
20°-30°	3104.7	6.7
30°-40°	5251.4	11.4
40°-50°	8377.6	18.1
50°-60°	11467.0	24.8
60°-70°	10808.5	23.4
70°-80°	4761.4	10.3
80°-90°	358.3	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°	46203.2	100.0
0°-180°	46203.2	100.0

Coefficient of Utilization

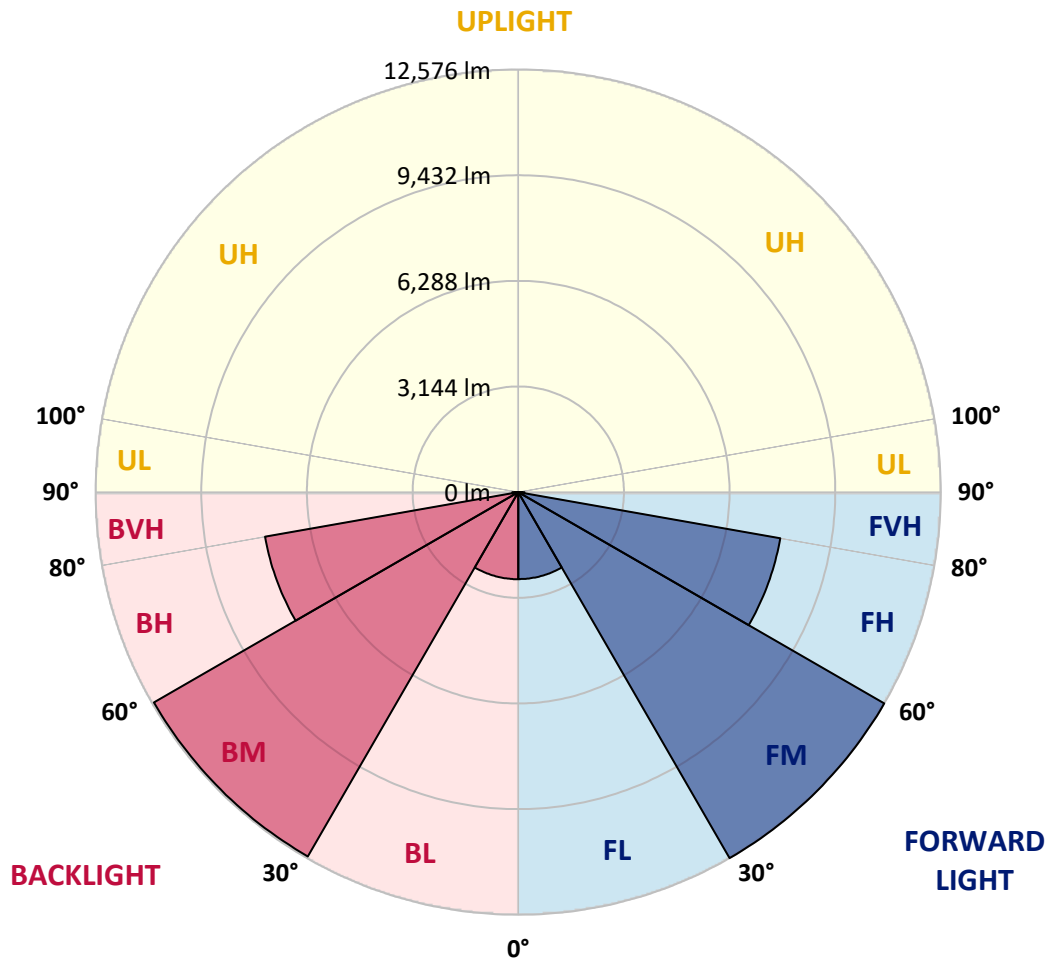


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.1	5.6			
FM (30°-60°)	12576.1	27.2			
FH (60°-80°)	7918.7	17.1			G4/12000
FVH (80°-90°)	183.0	0.4			G2/225
BL (0°-30°)	2590.9	5.6	B4/5000		
BM (30°-60°)	12519.9	27.1	B5		
BH (60°-80°)	7651.2	16.6	B5		G5
BVH (80°-90°)	175.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2
2.5°	4701.3	4701.3	4696.3	4721.2	4746.1	4756.1	4776.0	4781.0	4810.8	4785.9	4835.7
5°	4686.3	4681.4	4721.2	4781.0	4781.0	4845.7	4885.6	4940.3	4955.3	4985.2	4995.1
7.5°	4790.9	4781.0	4761.0	4825.8	4880.6	4980.2	5035.0	5129.6	5164.4	5204.3	5249.1
10°	4855.7	4855.7	4835.7	4950.3	5000.1	5134.6	5254.1	5348.7	5483.2	5528.0	5533.0
12.5°	4865.6	4880.6	4940.3	5089.7	5229.2	5403.5	5493.1	5672.4	5806.9	5891.5	5921.4
15°	5015.0	4985.2	5049.9	5254.1	5458.3	5612.7	5772.0	5901.5	6095.7	6205.3	6275.0
17.5°	5149.5	5119.6	5239.1	5483.2	5692.3	5931.4	6070.8	6210.3	6349.7	6449.3	6454.3
20°	5363.6	5388.5	5493.1	5757.1	6031.0	6240.2	6399.5	6424.4	6494.1	6638.6	6613.7
22.5°	5627.6	5607.7	5826.8	6115.7	6414.5	6588.8	6678.4	6613.7	6578.8	6733.2	6768.1
25°	5891.5	5951.3	6150.5	6419.4	6778.0	7012.1	7037.0	6857.7	6728.2	6783.0	6768.1
27.5°	6294.9	6304.9	6514.1	6832.8	7196.4	7400.5	7385.6	7131.6	6882.6	6887.6	6897.5
30°	6812.9	6763.1	6992.2	7281.0	7639.6	7823.9	7848.8	7485.2	7151.5	7051.9	7076.8
32.5°	7310.9	7370.7	7569.9	7898.6	8162.5	8267.1	8212.3	7888.6	7455.3	7320.9	7335.8
35°	7948.4	7938.4	8212.3	8491.2	8690.4	8710.3	8665.5	8192.4	7784.0	7609.7	7540.0
37.5°	8630.6	8720.3	8899.6	9128.7	9337.8	9347.8	9103.8	8725.3	8222.3	7933.4	8018.1
40°	9392.6	9492.2	9621.7	9955.4	10109.8	9950.4	9701.4	9188.4	8665.5	8411.5	8451.4
42.5°	10064.9	10109.8	10373.7	10767.1	10841.8	10772.1	10403.6	9781.1	9173.5	8894.6	8914.5
45°	10682.5	10742.2	11085.9	11439.5	11613.8	11494.2	11065.9	10473.3	9766.1	9527.1	9432.4
47.5°	11250.2	11369.7	11703.4	12067.0	12335.9	12345.9	11818.0	11100.8	10353.8	10040.0	10035.0
50°	11633.7	11808.0	12136.7	12550.0	12943.5	13097.9	12570.0	11798.0	10996.2	10662.6	10627.7
52.5°	11842.9	12022.1	12350.8	12993.3	13431.5	13670.6	13421.6	12450.4	11748.2	11399.6	11344.8
55°	11588.9	11708.4	12246.2	13147.7	13825.0	14218.4	14054.0	13351.8	12495.3	12211.4	12261.2
57.5°	10508.2	10757.2	11419.5	12545.1	13815.0	14781.2	14766.2	14203.5	13356.8	13087.9	13097.9
60°	8650.6	8859.7	9676.5	11250.2	13257.2	15010.2	15538.1	15030.2	14323.0	14009.2	13999.3
62.5°	6105.7	6369.6	7315.9	9034.0	11613.8	14691.5	16424.6	16071.0	15269.2	15040.1	15124.8
65°	3416.4	3575.8	4452.3	6006.1	8849.8	12938.5	16584.0	17151.7	16230.4	15881.8	15896.7
67.5°	1827.7	1887.5	2295.9	3152.4	5413.4	9975.3	14975.4	17774.2	17271.2	16668.6	16574.0
70°	1255.0	1274.9	1379.5	1613.6	2559.8	5966.2	11295.0	16663.7	18053.1	17231.4	17390.8
72.5°	1060.8	1050.8	1075.7	1100.6	1339.7	2669.4	6628.6	12823.9	17042.2	16733.4	16673.6
75°	921.3	916.4	926.3	901.4	931.3	1175.3	2933.3	7993.2	12475.3	13924.6	14148.7
77.5°	762.0	766.9	771.9	747.0	737.1	776.9	1180.3	3511.0	6140.6	6778.0	7310.9
80°	577.7	587.7	627.5	602.6	562.8	567.7	697.2	1175.3	1763.0	1598.6	1648.4
82.5°	393.4	398.4	483.1	453.2	423.3	383.5	448.2	607.6	687.3	522.9	458.2
85°	278.9	273.9	313.8	288.9	268.9	194.2	268.9	343.6	413.4	259.0	234.1
87.5°	64.7	64.7	129.5	104.6	99.6	79.7	104.6	134.5	179.3	114.5	104.6
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°	145°	155°	165°	175°	180°
0°	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2	4731.2
2.5°	4820.8	4776.0	4776.0	4766.0	4726.2	4716.2	4681.4	4691.3	4666.4	4641.5
5°	4990.1	4930.4	4930.4	4845.7	4766.0	4756.1	4716.2	4716.2	4676.4	4686.3
7.5°	5224.2	5169.4	5079.8	5005.1	4895.5	4850.7	4776.0	4766.0	4756.1	4736.1
10°	5503.1	5433.4	5343.7	5189.3	5099.7	5015.0	4940.3	4835.7	4810.8	4815.8
12.5°	5881.6	5772.0	5577.8	5443.3	5328.8	5219.2	5109.7	4955.3	4920.4	4935.4
15°	6150.5	6011.1	5816.8	5767.0	5612.7	5478.2	5298.9	5124.6	5064.8	5049.9
17.5°	6369.6	6255.1	6140.6	6065.9	5941.3	5777.0	5528.0	5328.8	5194.3	5179.4
20°	6548.9	6399.5	6374.6	6419.4	6265.1	6155.5	5851.7	5607.7	5428.4	5353.7
22.5°	6658.5	6563.9	6633.6	6673.4	6663.5	6479.2	6165.5	5881.6	5657.5	5587.8
25°	6778.0	6668.5	6917.5	7051.9	7086.8	6783.0	6539.0	6165.5	5946.3	5901.5
27.5°	6837.8	6877.6	7166.5	7450.3	7425.4	7191.4	6862.7	6529.0	6354.7	6275.0
30°	7012.1	7076.8	7515.1	7833.8	7838.8	7609.7	7360.7	6982.2	6788.0	6753.1
32.5°	7325.8	7405.5	7873.7	8212.3	8272.1	8097.8	7848.8	7614.7	7415.5	7335.8
35°	7564.9	7769.1	8297.0	8605.7	8765.1	8660.5	8521.1	8277.0	8067.9	7998.2
37.5°	7908.5	8192.4	8700.4	9118.7	9298.0	9288.0	9183.4	8919.5	8745.2	8685.4
40°	8401.6	8685.4	9148.6	9701.4	10035.0	10020.1	9960.3	9756.2	9497.2	9467.3
42.5°	8924.5	9158.5	9761.1	10393.6	10871.7	10821.9	10662.6	10423.5	10244.2	10204.4
45°	9432.4	9796.0	10353.8	11165.5	11524.1	11648.6	11459.4	11051.0	10846.8	10821.9
47.5°	10069.9	10358.8	11056.0	11783.1	12316.0	12335.9	12012.2	11633.7	11260.2	11339.9
50°	10637.7	11021.1	11728.3	12525.1	13162.6	12933.5	12520.2	12047.0	11778.1	11673.5
52.5°	11245.2	11713.4	12535.1	13346.9	13700.5	13471.4	12799.0	12271.1	11862.8	11818.0
55°	12131.7	12375.7	13451.4	14074.0	14188.5	13705.4	12714.4	11967.4	11439.5	11310.0
57.5°	13033.1	13317.0	14258.2	14796.1	14676.6	13576.0	12166.6	11011.2	10318.9	10134.7
60°	13944.5	14293.1	15084.9	15578.0	14960.4	12684.5	10617.7	9128.7	8321.9	8157.5
62.5°	14960.4	15413.6	16120.8	16295.1	14118.8	10921.5	8426.5	6588.8	5772.0	5498.1
65°	15861.9	16325.0	17196.5	16145.7	12330.9	8147.6	5448.3	3765.0	3162.4	2943.3
67.5°	16603.9	17126.8	17555.1	14288.1	9029.1	4771.0	2838.7	1982.1	1758.0	1678.3
70°	17191.6	18063.1	16061.1	10503.2	5159.5	2325.7	1533.9	1304.8	1274.9	1255.0
72.5°	16678.6	16564.1	11992.3	6060.9	2261.0	1279.9	1110.6	1075.7	1070.7	1075.7
75°	13640.7	12166.6	7171.4	2634.5	1135.5	926.3	921.3	906.4	931.3	931.3
77.5°	6618.7	5787.0	2998.1	1130.5	747.0	727.1	752.0	752.0	752.0	752.0
80°	1533.9	1698.2	1070.7	687.3	542.8	542.8	597.6	602.6	577.7	567.7
82.5°	522.9	697.2	587.7	433.3	358.6	403.4	453.2	463.2	383.5	388.5
85°	259.0	408.4	318.7	249.0	184.3	249.0	293.8	308.8	263.9	254.0
87.5°	119.5	179.3	119.5	84.7	64.7	89.6	84.7	69.7	39.8	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)